SFY 2015 4th Quarter Final Output Report

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GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**

DRINKING WATER PROGRAM

Objective 2.1: Protect Human Health

TASK 1.1.1: Drinking Water Plan Review

Review applications for drinking water projects including new water production, treatment, storage and distribution facilities and appurtenances, modifications to existing facilities, and point-of-use/point-or-entry devices. Review plans for swimming pools.

Assist individual drinking water systems to improve operations on site.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
DWSRF Federal	1) Make permitting decisions within licensing timeframe (LTF) requirements on drinking water plan review applications prior to issuance of AOC. Report numbers processed: a) Approvals to Construct (ATC) b) Approvals of Construction (AOC) c) Approvals to Install POU/POE d) Approvals of POU/POE Installation	T = Quarterly a) **A = 192** b) **A = 163** c) **A = 0** d) **A = 0**	Drinking Water

1.1.1 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-APP	0.75	40,966	18,025	27,696	86,687
WQFF-APP (DW) DWSRF Federal {Match}	0.50	20,868	9,182	14,108	44,158
DWSRF Federal	0.25	13,530	5,953	9,147	28,631
SDW Program (VEI)	3.00	176,654	77,728	119,432	373,814
TOTALS	**4.50**	**252,018**	**110,888**	**170,384**	**533,290**

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GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**
Objective 2.1: Protect Human Health

TASK 1.1.2: Drinking Water Technical Assistance

Maintain WIFA/DEQ partnership to provide technical assistance to public water systems using third-party providers to deliver technical assistance to individual PWSs, or groups of PWSs at ADEQ's direction. In addition, providers may develop tools that will benefit small public water systems.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
	1) Finalize Master Priority List (MPL) for system level technical assistance in conjunction with WIFA.	T = Annually **A = 3/16/15**	Drinking Water
	2) Initiate System Evaluations (SEs) projects to state approved contractors and oversee contractor performance. Apply system level TA, which may include fundable ranges outlined in WIFA's Intended Use Plan (IUP), within 30 days after SEs are approved by the state. (*Refer to Table 1.1.2: PWSs Receiving Technical Assistance*)	T = Quarterly **See Summary**	Drinking Water
	3) FY14 Annual Report to EPA	T = 9/01/14 **A = 9/23/14**	Drinking Water

1.1.2 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
SDW Program (VEI)	0.58	26,582	11,696	17,972	56,250
Contracts: Oper Tech Assist (2% set-aside)					200,000
TOTALS	**0.58**	**26,582**	**11,696**	**17,972**	**256,250**

Year End Summary
Del. #2: In FY15, eight technical assistance tasks were completed at eight PWSs: five system evaluations, two Operation and Maintenance Documents, and one Nitrate Treatment Evaluation. As of June 30, 2015, there are four tasks at four PWSs in process. These tasks include three system evaluations, and one Disinfection Byproducts (DBP) treatment evaluation. Approximately $42,900 was disbursed for technical assistance tasks in FY15. Approximately $90,350 was disbursed for Capacity Development / Operator training workshops.

The Drinking Water Section (DWS) reports continued success of the technical assistance (TA) program since its inception in 2004. The TA program uses an annually updated master priority list to identify PWSs that are most in need of facility operation, maintenance and/or managerial improvement as such improvements help to ensure that water served by PWSs meets state and federal safe drinking water standards. Additional PWS performance improvement includes increased conformance with all other safe drinking water rule requirements (e.g., operator certification, engineering, monitoring, reporting, etc.). A system evaluation, the core TA task, includes a facility site visit and records reviews to determine the technical, managerial, financial, and security status of a given PWS. The completed system evaluation includes a summary report which prioritizes recommendations for operators and owners and other technical assistance providers. DWS staff also work with the Water Infrastructure Finance Authority (WIFA) to conduct system evaluations for facilities interested in securing a WIFA generated grant or loan. The Treatment Evaluation process was developed in FY10 to provide systems with a structured industry standardized evaluation to identify feasible site-specific treatment options to meet water quality standards. PWSs were prioritized from FY10 to FY15 in conjunction with the WQD Enforcement Unit to assist in addressing PWSs with unresolved MCLs as identified on the ETT list.

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1.1.2 – PWSs Receiving Technical Assistance

PWS # / Name	DESCRIPTION	DATE COMPLETED
AZ04-13056/ACME Thunderbird Meadows	System Evaluation	10/14/2014
AZ04-09050/Woodruff DWID	System Evaluation	11/11/2014
AZ04-04034/Pine Strawberry	System Evaluation	11/11/2014
AZ04-13103/Pine Valley Water Company	System Evaluation	6/23/2015
AZ0413038/Lake Verde Water Company	System Evaluation	6/23/2015
AZ04-05002/ Graham County Utilities-Pima	Operation and maintenance documents	12/02/2014
AZ04-05001/ Graham County Utilities Fort Thomas	Operation and maintenance documents	12/02/2014
AZ04-11321/ Villa Grande DWID	Nitrate treatment evaluation	11/12/2014

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GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**
Objective 2.1: Protect Human Health

TASK 1.1.3: Operator Certification

The Safe Drinking Water Act requires states to adopt and implement a program for certification and recertification of the operators of community water systems (CWSs) and non-transient, non-community water systems (NTNCWSs) that meet the minimum standards set forth in guidelines to be published by EPA.

ADEQ will conduct certification exams or contract with third party to conduct exams statewide, maintain registry of certified operators, and process and resolve disputes between persons and third party testers.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
	1) Conduct training workshops.	T = 6 **A = 10**	Drinking Water
	2) Issue certificates to persons passing testing requirements within 7 days of receipt from third party vendors. Report certificates issued by class and grade: a) Distribution Grade 1 b) Distribution Grade 2 c) Distribution Grade 3 d) Distribution Grade 4 e) Treatment Grade 1 f) Treatment Grade 2 g) Treatment Grade 3 h) Treatment Grade 4	T = Quarterly **A = 653**	Drinking Water
	3) Review and verify professional development hours for certification renewals.	T = 10% **A = 10%**	Drinking Water
	4) Conduct audits of approved third party proctors.	T = 100% **A = 100%**	Drinking Water
	5) FY14 Annual Report to EPA.	T = 9/01/14 **A = 9/23/14**	Drinking Water

	1st	2nd	3rd	4th	Tot	
a	65	75	205	79	424	
b	26	43	106	41	216	
c	15	22	46	14	97	
d	4	12	27	21	64	
e	44	38	126	60	268	
f	28	31	83	37	179	
g	11	12	30	12	65	
h	4	12	30	12	58	

1.1.3 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
SDW Program (VEI)	3.33	157,947	69,497	106,785	334,228
Contract: Operational Tech. Assist. (2% set-aside)					100,000
TOTALS	**3.33**	**157,947**	**69,497**	**106,785**	**434,228**

Year End Summary
Del. #1: 16 workshops were conducted in FY15. Seven of the ADEQ training events were primarily related to water distribution and treatment and nine of the training events were primarily related to drinking water rules. The DWS continues to assist operators of public water systems serving less than 3,300 persons with training and continuing education requirements. During FY15, a total of 688 attended the events in person and 187 attended events via webinar.

Del #2: 1371 certificates were issued to persons passing exam requirements.

Del#4: An audit was conducted at Gateway Community College on 9/9/14.

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In November 2008, the DWS completed the transition to the use of operator certification exams provided by the Association of Boards of Certification (ABC). In addition to the use of ABC exams, proctoring services are now provided through local community colleges. The combination of the use of ABC exams coupled with the community college proctoring services has greatly enhanced ADEQ's operator certification program. Exams are now taken electronically at testing centers with instant grading analysis (pass/fail), in addition to the ability to schedule numerous exam sessions throughout the state at multiple campus and off-campus locations.

The upgrades to the Safe Water Operator Certification System (SWOCS) in FY07 and again in FY12 continued to be beneficial to the program in FY15 by facilitating the notification of PWSs who do not have a certified operator of record. As of June 30, 2015, 20 PWSs, representing approximately 1.5% of the total number of systems, did not have a certified operator of record, a slight improvement from FY14.

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GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**
Objective 2.1: Protect Human Health

TASK 1.1.4: New and Existing System Capacity Development

Assure that new community water systems and non-transient, non-community water systems which commenced operations since October 1, 1999, can demonstrate technical, managerial and financial capacity to operate in compliance with the requirements contained in the federal regulations in effect at the time the water system begins operations.

Implement the WIFA/DEQ Partnership to provide Operational Technical Assistance. Identify technical, managerial and financial (TMF) obstacles/challenges faced by existing systems and implement strategies to address the same.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
DWSRF Federal	1) Make permitting decisions within licensing time frame (LTF) requirements on elementary business plan applications prior to issuance of AOC. Report permitting decisions.	T = Quarterly **A = 5**	Drinking Water
DWSRF Federal	2) Conduct ongoing training for PWS staff/certified operators which, at a minimum, will include the following topics: a) Monitoring assistance program b) New PWS capacity development c) EMP/ERP/VA d) Existing Safe Drinking Water rules	T = a) 2 **A = 2** b) 2 **A = 4** c) 2 **A = 3** d) 4 **A = 9**	Drinking Water
DWSRF Federal	3) FY14 Annual Program Evaluation Report.	T = 9/1/14 **A = 9/23/14**	Drinking Water
DWSRF Federal	4) Update capacity development master priority list annually for existing systems.	T = 3/15 **A = 3/16/15**	Drinking Water

1.1.4 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
DWSRF Federal	0.58	33,798	14,871	22,850	71,519
SDW Program (VEI)	1.26	63,376	27,885	42,847	134,109
TOTALS	**1.84**	**97,174**	**42,757**	**65,697**	**205,628**

Year End Summary
Del. #1: Five elementary business plans were approved in FY15: Wagon Wheel Winery (PWS# has not been assigned); Canyon Water Improvement District (PWS#AZ0404112); Hickman Egg Ranch (PWS#AZ0407547); Desert Living Estate (PWS# has not been assigned) and Town of Marana, Tangerine Business Park (PWS# has not been assigned). As of June 30, 2015, there were no capacity development applications undergoing review.

The DWS continued to assure that all new community and non-transient, non-community PWSs that began operation on or after October 1, 1999, demonstrate technical, managerial and financial capacity. There has been an increase in elementary business plans from a total of one in FY 12 and FY13, four in FY14 and five in FY15.

The FY15 Master Priority List (MPL), developed for existing systems to update capacity development, was completed in March 2015. The MPL utilizes a list of criteria that is applied to each PWS to prioritize the facility for capacity development. Outreach efforts included 16 training sessions and, when possible, the training sessions were developed to specifically target the types of PWSs ranking higher on the MPL.

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GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**
Objective 2.1: Protect Human Health

TASK 1.1.5: Drinking Water Monitoring Assistance Program (MAP)

Develop and implement strategies to perform compliance monitoring for systems serving fewer than 10,000 populations. Provide technical assistance, develop and update monitoring guidance documents. Initiate and issue waivers. Update vulnerability assessments. Reconcile laboratory analysis report with requested tests and with individual system monitoring requirements. Assure all follow-up samples are taken. GPS points of entry, as needed.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
	1) Update monitoring schedules, including waivers and/or reduced monitoring assessments, for: a) Groundwater PWSs b) Surface water PWSs	T = **See below** a) Quarterly b) Quarterly	Drinking Water
	2) Complete 2015 MAP system invoices.	T = 2/15/15 **A = 11/30/14**	Drinking Water

1.1.5 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
Map Fee Fund	2.00	89,417	39,343	60,453	189,214
SDW Program (VEI)	0.51	30,789	13,547	20,816	65,152
Contracts: MAP Lab					580,000
TOTALS	**2.51**	**120,206**	**52,891**	**81,269**	**834,366**

Year End Summary
Del. #1a & 1b: Updates were performed 7/1/14, 9/3/14, 12/9/14, 2/4/15, 5/4/15 and 6/9/15. Del #2. Billing for calendar year 2015 MAP program occurred in November 2014.

The Monitoring Assistance Program (MAP) completed its sixteenth year of operations in FY15 and continues to be a strongly supported program by the regulated community. By conducting baseline EPDS compliance monitoring for the participating PWSs serving less than 10,000 people (and for PWSs serving greater 10,000 that opt into the program), MAP continues to lower the number of potential missed monitoring/reporting violations state wide. MAP also continued to grant waivers and reduced monitoring for water systems meeting waiver and/or rule criteria, issued annual invoices, and mailed and processed MAP annual update cards.

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GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**
Objective 2.1: Protect Human Health

TASK 1.1.6: Drinking Water Monitoring and Reporting

These activities will support all the monitoring and reporting requirements for public drinking water systems in accordance with state and federal drinking water rules.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
DWSRF Federal	1) Complete SDWIS reporting for OECA on actions taken on systems with new violations.	T = Quarterly	Drinking Water
DWSRF Federal	2) Run monitoring/reporting rules in SDWIS, validate violations and ensure proper public notification is issued.	T = Quarterly	Drinking Water
DWSRF Federal	3) Hold regular meetings and/or conference calls with EPA to discuss PWSs issues. Document agreement on discussed items and follow up actions.	T = Monthly	Drinking Water
Wellhead	4) Complete GUDI determinations on new groundwater sources as they are developed. Report determinations.	T = Quarterly **A = 1**	Drinking Water
	5) Review and respond to incremental primacy crosswalks comments as provided by EPA for PWS Definition, Arsenic and Radionuclides..	T = Within 45 days of receipt from EPA Region 9	Drinking Water
	6) Review the January 2014 SDWIS Data Quality Report and determine high priority data quality improvement areas to be addressed in FY15.	T = 7/14 **A = 9/14**	Drinking Water

1.1.6 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
Wellhead	1.23	67,249	29,590	45,466	142,304
DWSRF Federal	3.35	160,218	70,496	108,320	339,034
SDW Program (VEI)	2.59	139,777	61,502	94,500	295,779
TOTALS	**7.17**	**367,244**	**161,587**	**248,286**	**777,118**

Year End Summary

1. Regular quarterly SDWIS uploads performed on: 5/15/2015, 2/4/2015, 12/9/2014, and 8/11/2014. In addition, supplemental uploads to address ETT scores and data quality issues were performed on: 5/18/2015, 2/13/2015, 12/18/2014 and 9/15/2014.
2. The following rules or portions of rules are *current* on monitoring and reporting with violations actively generated and validated as necessary (periodicity and notes in parenthesis): Chemical Contaminant Rules (portions of the rule current: inorganic chemicals current with reporting and validating violations – asbestos checked annually, all other inorganic chemicals on a quarterly basis); Consumer Confidence Report Rule (yearly – violations generated Q1 and 2, FY 2015, were validated by the third quarter); Disinfection Byproducts Rule (portions of the rule current: Maximum Residual Disinfectant Levels run quarterly); Ground Water Rule / Total Coliform Rule (monthly); Interim Enhanced Surface Water Treatment Rule (quarterly); Lead and Copper Rule (biannually).
   The following rules or portions of rules are *not current* on monitoring and reporting (with explanations of current status in parentheses): Chemical Contaminant Rules (portions of the rule not current: synthetic and volatile organic chemicals were last run in Q2, FY 2015, as ADEQ has not been able to fill this position due to the statewide hiring freeze); Disinfection Byproducts Rule (Stage 2: approvals for sampling plans and schedules have been reassigned,

and remaining portions of Stage 1 were last run Q2, FY 2015, as ADEQ has not been able to fill a vacancy due to the hiring freeze); Radionuclides Rule (violations generated and validated last time in Q2, FY 2015, as ADEQ has not been able to fill this position due to the hiring freeze).

3. In-person meeting with Kevin Ryan of Region IX EPA held on 3/5/2015 along with impromptu discussions on 4/7/2015 regarding RTCR and other matters. PWS conference calls/meetings held 6/18/2015, 12/5/2014, 10/30/2014, and 9/12/2014. Enforcement conference calls attended on 4/2/2015, 1/16/2015, and 9/19/2014. Source water calls and meetings attended on 4/29/2015 and 9/18/2014.
4. GUDI determinations were made on the following sources this fiscal year: Allen Spring (Source ID #3693024), Blowout Spring (#3693024), Cliff Spring (#3693022), Left Twin Spring (#3130373), Walnut Spring (#3693031) all for the Town of Jerome (PWS ID AZ0413037), and additionally, GUDI evaluations were performed for Humboldt Water (AZ0413052) and Town of Wickenburg (AZ0407045). No positive GUDI determinations were made.
5. No review or comments were made due to the continuance of Arizona's rule making moratorium, changes in leadership within the Drinking Water Section and Water Quality Division, the looming Revised Total Coliform Rule, and confusion with who held the comments.
6. Following the 10/30/14 EOY Meeting with EPA, Don Hodge provided an update of the 2014 SDWIS Data Quality Report that was originally discussed during the FY14 mid-year meeting. ADEQ and EPA worked collaboratively and reviewed data/reports originally extracted from a January 2014 pull from SDWIS/Fed, then updated with the most recent SDWIS/Fed information. ADEQ had agreed at the mid-year meeting to begin collecting locational data for treatment plants and to fill in any missing locational gaps for sources of drinking water. As sanitary surveys continue, ADEQ inspectors will also refine locational information and report all findings in decimal degrees as suggested by EPA (i.e., a subset of locational data have been reported without decimal places). ADEQ efforts have also commenced to resolve "open ended" violations (i.e., violations associated with monitoring periods that end in 12/31/2025), and substantial progress has been made to update and resolve numerous CCR violations.

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GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**
Objective 2.1: Protect Human Health

TASK 1.1.7: Source Water Protection

Identify protective strategies and assist individual public water systems with the planning, development and application of measures/actions necessary to implement the Source Water Protection Program. Targets are our goals, however, the actual numbers achieved rely on the willingness and ability of public water systems to participate in the voluntary source water protection program (SWPP).

a) Source Water Protection –provide technical assistance in planning and implementing local Source Water Protection for public water systems throughout Arizona.

b) Source Water Assessments – perform or assist in the development of assessments for new individual sources or new systems which voluntarily choose to participate in source water protection by delineating source water protection areas, inventorying potential sources of contamination and performing vulnerability/susceptibility analysis.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
Wellhead	1) Conduct Source Water Protection Program outreach events with individual PWSs.	T = 6 **A = 2**	Drinking Water
Wellhead	2) Collect locational data using GPS and/or GIS. a) New drinking water sources or modify/update locational information for existing sources. b) Potential sources of contamination (chemical use/storage) within ½ mile radius of a new or existing drinking water source.	T = 3 **A = 3**	Drinking Water
Wellhead	3) Delineate source water assessment areas for new PWSs/sources or reassess/update existing assessment areas.	T = 2 **A = 4**	Drinking Water
Wellhead	4) Make sensitivity determinations for PWSs/sources through: a) Review of occurrence data b) Review Sanitary Surveys c) Review of hydrological characterization (50 foot clay layer).	T = 2 **A = 6**	Drinking Water
Wellhead	5) Conduct comprehensive inventories of potential sources of contamination.	T = 6 **A = 30**	Drinking Water
Wellhead	6) Identify any changes in trends to the previously identified, most prevalent, and most threatening potential sources of contamination.	T = 6/30/15	Drinking Water
Wellhead	7) Use new and updated SWA as part of a PWS's development of a SWP plan.	T = 4 **A = 5**	Drinking Water
Wellhead	8) Assist public water systems to identify protection strategies and to implement those strategies.	T = 4 **A = 3**	Drinking Water
Wellhead	9) Assist community water systems in achieving minimized risk to public health by source water protection.	T = 1 **See Summary**	Drinking Water

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GOAL #2: Protecting America's Waters **Objective 2.1**: Protect Human Health	**Program #4900: Drinking Water Regulation**
TASK 1.1.7: Source Water Protection (Cont'd) **DELIVERABLES:**	

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.1.7 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
Wellhead	2.17	129,378	56,926	87,470	273,774
SDW Program (VEI)	0.08	4,563	2,008	3,085	9,656
TOTALS	**2.25**	**133,941**	**58,934**	**90,555**	**283,430**

Year End Summary

1. ADEQ staff participated in the following events with PWSs: Sturgeon Elementary School site visit (7/2/14), Camp Colton Flagstaff School site visit (7/2/2014), Verde River Day at Dead Horse Ranch State Park with 100 attendees (9/27/2014), a Drinking Water Workshop in Lake Havasu City (1/27/2015) attended by over 50 certified system operators, a similar workshop at ADEQ headquarters with at least 75 certified operators (2/4/2015), and a Sequoia Village site visit (2/17/2015).
2. GPS and/or GIS locational data was collected during site visits to Camp Colton Flagstaff School (7/2/2014), Sturgeon Elementary School (7/2/2014) and Sequoia Village School (2/17/2015).
3. Source water assessment areas were either delineated or reassessed following site visits to Camp Colton Flagstaff School (7/2/2014), Sturgeon Elementary School (7/2/2014) and Sequoia Village School (2/17/2015).
4. Sensitivity determinations were made on the following sources this fiscal year: Allen Spring (Source ID #3693024), Blowout Spring (#3693024), Cliff Spring (#3693022), Left Twin Spring (#3130373), Walnut Spring (#3693031) all for the Town of Jerome (PWS ID AZ0413037), and additionally, GUDI evaluations were performed for Humboldt Water (AZ0413052) and Town of Wickenburg (AZ0407045).
5. The following systems were reviewed for potential contamination by underground storage tanks and other sources of BTEX contamination: 4th Quarter (5 systems): **PWS# 02029** - Southland Utilities Golden Acres, **PWS# 02054** - Northern Sunrise WC Mustang Crystal, **PWS# 04037** - Town of Star Valley, **PWS# 07154** - City of Buckeye Sonora – Sundance, **PWS# 10329** - Marana Municipal Hartman Vistas; 3rd Quarter (12 systems): **PWS# 11409** - Valle Escondido DWID, **PWS# 02017** - El Frida WID, **PWS# 02123** - Douglas Border Patrol Station, **PWS# 11407** - Park Water Company Inc., **PWS# 07088** - City of Avondale, **PWS# 11019** - Arizona Water Company/Oracle, **PWS# 07683** - New River School, **PWS# 10179** - Tucson Water Thunderhead, **PWS# 07094** - Goodyear Water Dept, **PWS# 10260** - Dome Well Coop, **PWS# 07099** - EPCOR Water, Sun City, **PWS# 02107** - Sandy's Short Stop; 2nd Quarter (9 systems): **PWS# 07733** - West Phoenix Estates 6, **PWS# 10173** - Tucson Water – Rancho Del Sol Lindo, **PWS# 07500** - City of Surprise, **PWS# 11039** - City of Apache Junction, **PWS# 10411** - Tierra Linda HOA Water Company, **PWS# 02075** - Double Adobe School, **PWS# 02007** - Bella Vista Water South, **PWS# 07675** - Teen Challenge International, **PWS# 07096** - City of Peoria; 1st Quarter (8 systems): **PWS# 02355** - AZ Electric Power/Apache, **PWS# 03063** - Starlight Water Company, **PWS# 04034** - Pine Strawberry DWID, **PWS# 07125** - Tortilla Flat Resort, **PWS# 07500** - City of Surprise, **PWS# 07790** - Buckeye Armed Forces Reserve Center, **PWS# 13268** - On the Greens, **PWS# 13274** - City of Cottonwood, Quail Canyon 1.
6. The hydrologist for the Drinking Water Monitoring and Protection Unit reviews all available data at least quarterly and has not identified any changes to the most prevalent and/or threatening potential sources of contamination.
7. Source water Protection Plans (and the associated SWA) were created and/or updated for the following systems over the past year: **PWS# 13094** – Oak Creek Ranch School, **PWS# 13095** – Oak Creek School, **PWS# 13277** – Desert Star Community School, **PWS# 20505** – Marana High School, **PWS# 13272** – St. Joseph's Montessori Schools.
8. Along with the creation of applicable SWP/SWAs, the unit hydrologist also works "hands-on" with maintenance staff and/or the certified operators for a system. Systems advised in this fashion include: **PWS# 13094** – Oak Creek Ranch School, **PWS# 13095** – Oak Creek School, **PWS# 13277** – Desert Star Community School, **PWS# 20505** – Marana High School, **PWS# 13272** – St. Joseph's Montessori Schools.

9. Targets are our goals; however, the actual numbers achieved rely on the willingness and ability of public water systems to participate in the voluntary source water protection program; therefore, the target for FY15 has been kept the same (one), to reflect this obstacle. ADEQ completed the SWPP for PWS ID# 15497, Ehrenberg Improvement Association Water Department, in FY15. ADEQ continues to work with the City of Holbrook to update their SWPP and to determine if enough regional hydrologic data is available for their wells to model the area utilizing the Wellhead Analytic Element Model (WhAEM) modeling program.

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GOAL #2: Protecting America's Waters | **Program #4400: Underground Water Regulation**
GROUNDWATER PROGRAM | **Program #4900: Drinking Water Regulation**
Objective 2.1: Protect Human Health

TASK 1.2.1: Groundwater Protection – Permits

Carry out Arizona's groundwater protection program to protect Arizona's aquifers as drinking water sources. Maintain compliance with these programs through effective permitting in accordance with Department rules, practices, and policies.

Assist individual wastewater systems to improve operations on site.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
	1) Make permitting decisions within Licensing Timeframe (LTF) requirements on Type 4 General Permit applications. Report numbers processed. a) Construction Authorizations b) Discharge Authorizations Goal 2, Obj. b, strategy i	T = a) Quarterly **A = 192** b) Quarterly **A = 163**	Water Permits
	2) Make permitting decisions within LTF requirements on Certificates of Approval of Sanitary Facilities for Subdivisions applications. Report numbers processed. Goal 3; obj. a, strategy i	T = Quarterly **A = 26**	Water Permits
DWSRF Federal	3) Continue to communicate with EPA on groundwater issues related to underground injection via the *APP Permits with UIC Nexus Table* following Task 1.2.1.	T = Quarterly	Water Permits
	4) Make permitting decision within LTF requirements on APP and reclaimed water permits (state-funded program).	T = Quarterly **A= 41**	Water Permits
	5) Provide technical support to WQIG on grant applications & public education. Goal 3, Obj. a, strategy i	T= As needed	Water Permits

1.2.1 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-APP	19.46	908,425	399,707	614,168	1,922,300
WQFF-APP DWSRF Federal {Match}	2.09	125,921	55,405	85,133	266,459
WQFF-APP PPG {Match}	0.75	38,270	16,839	25,874	80,982
DWSRF Federal	0.25	15,712	6,913	10,623	33,248
Contract: Expedited Permits					60,000
TOTALS	**22.55**	**1,088,328**	**478,864**	**735,797**	**2,362,989**

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TASK 1.2.1 - APP PERMITS WITH UIC NEXUS

PROJECT NAME	DESCRIPTION	STATUS
Kinder Morgan	Kinder Morgan plans to develop the St. Johns Gas Unit as a major supplier of CO2 for enhanced recovery of oil and natural gas.	ADEQ issued a Consent Order (Docket No. APP-39-14) dated July 30, 2014. The consent order requires Kinder Morgan to submit an APP application within 90 calendar days of the effective date of the Order (October 30, 2014) in order to permit and close nine (9) injection wells previously used for formation stimulation. Kinder Morgan and ADEQ held a pre-application meeting on July 17, 2014, to discuss the closure of nine previously-stimulated wells and proposal for two new deep injection wells. Kinder Morgan submitted an application on October 28, 2014. Kinder Morgan revised the application. They are no longer planning on injecting CO2 brine into the Granite Unit. Application is now only for clean closure of the previously stimulated wells.
Morton Salt	Glendale, AZ. Salt is mined from Luke Salt Body via solution mining wells. Existing Individual APP (Permit #100176).	Significant amendment application (LTF 58651) submitted January 22, 2014, to clarify permit language and limits for pond freeboard levels, clarify required berm heights, allow for receipt of brine from Plains LPG and eliminate fissure monitoring requirements. ADEQ Response to Public Comments was issued on July 7, 2014, and the APP was signed on August 20, 2014. On July 2, 2015, an ADEQ hydrologist observed the pressure test for well RB#4. According to Morton Salt, well RB#4 passed the mechanical integrity test.
Florence Copper Production Test Facility (PTF)	The PTF is planned to be constructed and operated over a two-year period, estimated to include an approximate 14 month leaching phase and a 9 month mine block rinsing phase. The PTF includes a total of 24 wells: 4 Underground Injection Control Class III injection wells, 9 recovery wells, 7 observation wells and 4 multilevel sampling wells. The proposed in-situ	Significant amendment application no longer active for Individual APP 101704. Temporary Individual APP (TIP) 106360 (LTF 55656) for the PTF issued on September 28, 2012. Other amendment issued for TIP 106360 (LTF 58398) on July 3, 2013. Four parties appealed the Department decision to issue the TIP. Appeal

	copper recovery process involves injecting a lixiviant (99.5% water mixed with 0.5% sulfuric acid) through injection wells into the oxide zone of the bedrock beneath the site for the purposes of dissolving copper minerals from the ore body. The resulting copper-bearing solution will be pumped by recovery wells to the surface where copper will be removed from the solution in a SX/EW plant. Barren solution will be re-acidified and re-injected back into the oxide zone. Other facilities proposed for the PTF will include the SX/EW Plant, Process Water Impoundment, Runoff Pond, tank farm and other ancillary facilities.	hearing before an Administrative Law Judge (ALJ) was held March 18 through May 7, 2014. The ALJ decision, issued September 29, 2014, sustained the appeal in part and ordered that the TIP be rescinded. The ALJ decision was considered by the Water Quality Appeals Board and a decision to remand the permit was made on November 14, 2014. Significant amendment application received 4/1/2015 is currently under review.
BHP Miami	APP to include injection well field. Existing Individual APP Permit #101546.	No Activity-No permit has been issued yet.
City of Sedona Wastewater Reclamation Plant – Injection Test Well	Injection testing at the Sedona Wastewater Reclamation Plant (WWRP) using Class A+ reclaimed water to determine sustainable injection rates.	Temporary Individual Permit (TIP) was signed on October 4, 2013. On September 19, 2014, the City submitted a letter requesting renewal of the TIP for a second year. The renewal was signed on December 19, 2014. The temporary permit expires December 18, 2015. The permit includes a compliance schedule item that requires an amendment application to incorporate all closure and post-closure activities for the Injection Test Well into APP No. P-102298 (City of Sedona WRP). Also, the application must include updated closure/post-closure cost estimates and a corresponding updated financial assurance mechanism for APP No. P-102298. Pre-application meeting was held 6/22/15 to discuss amendment application.

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GOAL #2: Protecting America's Waters — **Program #4900: Drinking Water Regulation**; **Program #4400: Underground Water Regulation**

Objective 2.1: Protect Human Health

TASK 1.2.2: Groundwater Source Protection

Implement measures to protect Arizona aquifers that serve as drinking water sources.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
Wellhead	1) Drywell registrations: a) Register existing and new dry wells (Class V injection wells). Report number registered. b) Evaluate wells to determine potential impact from waste disposal activities in drainage area to assess need for APP.	T = Quarterly **A = 1671**	Water Permits
Wellhead	2) Evaluate potential for adverse impacts to groundwater quality resulting from recharge through injection wells, recharge basins or other means. (*Refer to Recharge Facility Reviews Table* following Task 1.2.2.)	T = Within ADWR Timeframes	Water Permits
Wellhead	3) Review hydrologic reports, attend meetings and provide technical support on projects related to mitigation orders. *(Refer to Mitigation Order Reviews Table following Task 1.2.2)*	T = Quarterly	Water Permits
	4) Manage the Pesticide Contamination Prevention Program a) Evaluate potential for agricultural use pesticide active ingredients to reach and/or impact groundwater. Report number processed. b) Publish the annual Groundwater Protection List (GWPL) c) Educate industry in proper practices for use of GWPL listed active ingredients Goal 3, obj. a, strategy i	T = a) Quarterly **A = 37** b) 12/01/14 **A = 12/20/14** c) Annually **A = 4/30/15**	Water Permits

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GOAL #2: Protecting America's Waters **Objective 2.1**: Protect Human Health	**Program #4900: Drinking Water Regulation** **Program #4400: Underground Water Regulation**

TASK 1.2.2: Groundwater Source Protection

Implement measures to protect Arizona aquifers that serve as drinking water sources.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.2.2 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-APP	0.25	14,478	6,370	9,788	30,637
WQFF-APP DWSRF Federal {Match}	0.89	43,022	18,930	29,086	91,038
WQFF-APP NPS in PPG {Match}	0.27	16,969	7,466	11,472	35,908
Wellhead	3.04	173,405	76,298	117,236	366,939
TOTALS	**4.45**	**247,874**	**109,065**	**167,583**	**524,521**

Year End Summary

Del. #1 – Drywell registrations: Along with each of the 1671 drywells registered, ADEQ asks for a report of activities in the drainage area of the drywell. If the drywell drains certain areas, a letter is sent advising they need an APP.

Del. #4 – Pesticides: Reviewed and approved 15 biopesticide waivers, 14 active ingredients not on the Groundwater Protection List (GWPL), and 8 active ingredients placed on the GWPL. Presented an update on the state of the program to the Western Plant Health Association (WPHA) on April 30, 2015.

Del. #4c – It is the Dept. of Agriculture that provides education to the industry on how to use pesticides/active ingredients.

TASK 1.2.2 – RECHARGE FACILITY REVIEWS

ADEQ HAS MET WITH ADWR AND/OR APPLICANTS REGARDING FACILITIES WITH ADWR USF APPLICATIONS IN PROCESS.		
Central Avra Valley Storage and Recovery Project	Amendment to the existing USF Permit. Recharge of CAP water to basins owned by Tucson Water in the central Avra Valley west of Tucson. Request for increase in storage capacity.	Application received by ADWR on 3/26/14, and referred to ADEQ on 4/7/14. Advisory memo issued to ADWR on 5/16/14 with deficiencies for inclusion in the ADWR "complete and correct" determination. The applicant response was referred to ADEQ on 10/14/14, and a second deficiency memo was issued to ADWR on 10/23/14. The applicant successfully addressed remaining issues, and a certification letter (A.R.S. § 45-811.01.C.5) was sent to ADWR on 11/18/14.
Southern Avra Valley Storage and Recovery Project	Amendment to the existing USF Permit. Recharge of CAP water to basins owned by Tucson Water in the southern Avra Valley west of Tucson. Request for increases in recharge capacity and storage capacity.	Application received by ADWR on 3/26/14, and referred to ADEQ on 4/7/14. Advisory memo issued to ADWR on 5/16/14 with deficiencies for inclusion in the ADWR "complete and correct" determination. The applicant response was referred to ADEQ on 10/14/14, and a second deficiency memo was issued on 10/23/14. The applicant successfully addressed remaining issues, and a certification letter (A.R.S. § 45-811.01.C.5) was sent to ADWR on 10/28/14.
Pecan Water Reclamation Plant (USF permit amendment also)	Amendment to existing APP P-105324 to add 12 new vadose zone recharge wells for recharge of wastewater effluent.	Complete application received by ADEQ on 7/2/14. APP amendment was granted on 12/19/14.
City of Goodyear – Vadose Injection Project (USF permit application also)	APP application for installation of 15 vadose injection wells, Inventory number 511440.	Complete application received by ADEQ on 8/5/14. Permit was issued on 6/4/15.
City of Chandler Regional Park Recharge & Recovery Facility (USF Permit amendment also)	Amendment to existing APP P-103145 to add a new source of wastewater effluent.	Application received by ADEQ on 8/13/14. APP amendment was granted on 12/18/14.

City of Chandler – Ocotillo Recharge & Recovery Facility (USF Permit amendment also)	Amendment to existing APP P-105338 to expand effluent recharge capacity and add/update well locations.	Application received by ADEQ on 8/13/14. The amended APP issued on 4/30/15.
City of Chandler – Ocotillo Brine Reduction Facility (USF Permit amendment also)	Amendment to existing APP P-102865 to allow an additional source water and disposal to three additional APP recharge permit locations.	Application received by ADEQ on 12/11/14. Substantive review phase is complete. Draft permit public noticed on 5/31/15, with public comment period ending 6/30/15.
Pinal Valley Recharge	USF application for recharge of Central Arizona Project water using five infiltration basins.	Referred to ADEQ by ADWR on 1/27/15. Advisory memo issued to ADWR on 2/9/15 for inclusion in the ADWR "complete and correct" determination. The applicant responded on May 18, 2015, and a determination memo was sent to ADWR on 5/22/15 (A.R.S. §45-811.01.C.5)
Olberg Dam	USF application for a pilot scale project for the surface recharge of Central Arizona Project water.	Application forwarded by ADWR to ADEQ on 3/17/15. A determination memo was sent to ADWR on 3/23/15 (A.R.S. §45-811.01.C.5), after consultation with ADWR personnel.
City of Phoenix 9A – Well 300	USF amendment application.	The USF amendment application was forwarded to ADEQ by ADWR personnel on 4/23/15. A determination memo was sent to ADWR on 5/18/15 (A.R.S. §45-811.01.C.5), after consultation with ADWR personnel, including recommendations for the draft USF permit amendment.
City of Avondale	Pre-application meeting for a pending USF permit amendment application.	ADEQ representatives met with ADWR and the City of Avondale on 6/1/15 regarding a pending USF amendment application. Recommendations regarding the permit amendment application were subsequently provided by ADEQ to ADWR on 6/2/15.

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TASK 1.2.2 – MITIGATION ORDER REVIEWS

ADEQ HAS COMPLETED THE FOLLOWING REVIEWS		
PROJECT NAME	**DESCRIPTION**	**STATUS**
Bisbee Mitigation Order	Sulfate in groundwater from Freeport McMoRan Copper Queen Mine	Completed review of the 2nd Quarter 2014 Groundwater Monitoring Report on September 9, 2014. Completed review of the June 2014 to August 2014 Status Report on September 15, 2014. Completed review of the Updated Well Inventory Report on September 15, 2014. Continued to review the response to ADEQ comments on the Draft Feasibility Study (FS), the revised FS and Mitigation Plan. 2nd Quarter - Completed review of the Mitigation Plan, revised Feasibility Study and Response to ADEQ comments on December 5, 2014. 3rd Quarter – Completed review 3rd and 4th Quarter 2014 Quarterly Groundwater Monitoring Reports 4th Quarter – Completed review of mitigation performance report on June 22, 2015. Sulfate data from public drinking water supply wells indicates the concentration is less than 250 mg/l in all wells and the mitigation objective is being met.
Sierrita Mitigation Order	Sulfate in groundwater from Freeport McMoRan Sierrita Mine	Completed review of the Sierrita Mitigation Plan and the Well Field Operation & Maintenance Plan on September 2, 2014. 2nd Quarter – No reviews. 3rd Quarter – Completed review of the Semi-Annual – 2nd and 3rd Quarters 2014 Groundwater Monitoring Report 4th Quarter – Met with the Voluntary Remediation Program twice (April 9th and May 14th, 2015) to discuss on-mine background uranium groundwater evaluation.

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**

SURFACE WATER PROGRAM

Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.1: Arizona Pollutant Discharge Elimination System (AZPDES)

Carry out federal and state statutory requirements of the Arizona Pollutant Discharge Elimination System program to ensure discharges to surface waters will meet water quality standards and, therefore, will not degrade surface water quality. Maintain compliance through effective permitting in accordance with Department rules, practices, and policies.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
	1) Make permitting decisions within LTF requirements on AZPDES permit applications. a) Report numbers processed. **i) Issued** **ii) Modified** **iii) Denied** **iv) Suspended** **v) Withdrawn/Revoked** vi) **Backlogged** b) Coordinate with EPA on variance approval process and strategy.	T = Quarterly a) 1st: 5 / 2nd: 10 / 3rd: 18 / 4th: 26 / Tot: 59 0 / 0 / 0 / 0 / 0 0 / 0 / 0 / 1 / 1 0 / 0 / 0 / 0 / 0 0 / 0 / 0 / 0 / 0 6 / 8 / 8 / 8 / 30 b) **A = Ongoing**	Water Permits
	2) Process permit renewals for all expiring AZPDES permits with a goal of 90% current to minimize backlog.* (*Refer to AZPDES Renewal Permits Table following Task 1.3.1.*)	T = Quarterly **A= 96% Q1; 94% Q2; 95% Q3; 95% Q4**	Water Permits
	3) Phase I MS4 Permits: a) Review annual reports b) Continue outreach efforts	a) T = 8 **A = 6** b) T = 6/15	Surface Water
PPG	4) Implement activities for MS4 Permittees a) Phase I i) Conduct one audit of each permittee once every five years ii) Conduct inspections on an as-needed basis b) Phase II i) Perform one audit of each permittee once every seven years ii) Conduct inspections on an as-needed basis	T = ai) 2 (EPA will conduct) bi) 8 **A = 8** bii) **A = 1**	Surface Water
	5) MS4 Phase II General Permit renewal stakeholder process a) Continue stakeholder process for MS4 Phase II General Permit b) Provide first draft permit for informal review (including EPA) c) Prepare draft permit for public comment d) Review and respond to comments e) Finalize and issue Phase II Permit	T = a) 5/14 **A = 5/14** b) 8/14 **A = 9/29** c) 10/14 **A = 12/19/14** d) 3/15 **Off target** e) 6/15 **Off target**	Surface Water

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.1: Arizona Pollutant Discharge Elimination System (AZPDES) – Cont'd.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
	6) DeMinimus General Permit Reissuance a) Hold stakeholder meetings and develop draft permit b) Public Notice draft DMGP c) Review and prepare response to comments d) Finalize and issue DMGP	T = a) 8/14 **A = 9/14** b) 11/14 **in May** c) 1/15 **in June** d) 6/15	Surface Water
	7) AZPDES General Permits – Review and process applications, annual reports, DMRs and SWPPPs. Report applications processed quarterly: a) Biosolids GP i) Notices of Intent ii) Notices of Termination b) Infrequent discharge GP i) Notices of Intent ii) Notices of Termination c) Minor discharges GP i) Notices of Intent ii) Notices of Termination d) Multi-Sector General Permits – Report number of: i) Notices of Intent ii) Notices of Termination iii) Certificate of No Exposure e) Stormwater Construction General Permits – Report number of: i) Notices of Intent ii) Notices of Termination iii) Waivers f) DeMinimis General Permits – Report number of: i) Notices of Intent (1) Single source (2) Area wide ii) Notices of Termination g) Pesticide General Permit – Report number of: i) Notices of Intent ii) Notices of Termination	T =	Surface Water Water Permits

1st	2nd	3rd	4th			Tot
Biosolids						
2	5	5	5	17		
0	0	0	0	0		
Infrequent discharge						
0	1	2	2	5		
0	0	0	0	0		
Minor discharges						
0	1	0	1	2		
0	0	0	0	0		
Multisector						
31	32	20	22	105		
13	13	12	13	51		
18	26	15	17	76		
Construction						
391	385	435	440	1651		
377	360	443	365	1545		
9	27	6	9	51		
DeMinimis						
11	8	4	7	30		
2	0	1	1	4		
3	6	5	6	20		
Pesticide						
1	1	0	6	8		
2	7	0	0	9		

* For purposes of this work plan, 'backlog' means an AZPDES application that is 6 mos. from expiration or a new application that has been in process over one year.

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GOAL #2: Protecting America's Waters	Program #4500: Surface Water Regulation
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems	

TASK 1.3.1: Arizona Pollutant Discharge Elimination System (AZPDES) – Cont'd.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.3.1 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-AZPDES	12.91	648,507	285,343	438,443	1,372,293
WQFF-AZPDES PPG {Match}	3.11	175,734	77,323	118,810	371,867
PPG	0.30	18,000	7,920	12,169	38,089
Contract: MS4 Audits (PPG)					80,000
TOTALS	**16.32**	**842,241**	**370,586**	**569,422**	**1,862,250**

Year End Summary

Del. # 3: At the end of the 4th quarter, the Stormwater Unit reviewed and responded to a total of 40 of the 49 combined MS4 Phase I and Phase II annual reports (82%). **Del. #3b:** ADEQ conducted MS4 training for Phase I and Phase II stakeholders at STORMS Annual Stormwater Summit in Feb. 2015. **Del. # 4(b)(i):** ADEQ, through it contractor, completed the 8, Phase II MS4 audits during FY15. The final audit reports were issued to the respective MS4s on June 27, 2015. Additionally, the Stormwater Unit observed and additional MS4 Illicit Discharge Detection and Elimination program element through the report made to U.S. EPA regarding and illicit discharge in a permitted Phase II MS4. **Del. # 5:** Completed informal stakeholder and EPA comment period, revised draft permit, and submitted draft permit to Arizona Administrative Register for formal public notice in June and was published July 17, 2015. Formal comment period closes on August 17, 2015. **Del. #6:** Completed draft DeMinimis General Permit and issued for public notice on June 12, 2015, and closed on July 13, 2015. **Del. #6d** is delayed until Aug. 31; review is complete, and we are in the process of preparing a response to comments for mid-August.

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Table 1.3.1, Deliverable 2

AZPDES Renewal Permits FY15								
Permittee	**AZPDES # AZ00--**	**Type**	**Permit Exp Date**	**Date Appl Due**	**Date Appl Rec'd**	**LTF Number**	**Proj Mgr**	**Status**
Bensch Ranch Estates	24813	Min	10/18/2012	4/18/2012	4/20/2012	56013	RC	Issued 7/23/2014
ASARCO - Mission	24597	Min	11/18/2013	5/18/2013	5/17/2013	58202	CC	Issued 7/2/2014
Palo Verde Utilities	25071	Maj	3/30/14	9/30/2013	10/1/2013	58862	SM	Issued 7/24/2014
City of Phoenix – 23rd Avenue WWTP	20559	Maj	5/4/2014	11/4/2013	11/5/2013	59010	RA	Issued 9/15/2014
ASARCO - Ray Mine	00035	Maj	5/27/14	11/27/13	12/3/2013	59202	CC	Issued 05/27/2015
Cave Creek Town Of	25828	Min	6/28/2014	12/28/2013	12/27/2013	59394	RA	Issued 8/07/2014
Chimney Ranch	25925	Min	6/28/2014	12/28/2013	1/16/2014	59532	JM	Denied 05/05/2015
Frito-Lay	25798	Min	7/8/2014	1/8/2014	1/28/2014	59579	SM	Issued 11/12/2014
Buckeye, Town of-Festival Ranch	25216	Maj	7/26/2014	1/26/2014	1/27/2014	59560	RC	In Public Notice
Bureau of Reclamation - Hoover Dam	25160	Min	8/17/2014	2/17/2014	2/18/2014	59694	RA	Issued 10/09/2014
Buckeye, Town of – Central WWTP	25313	Maj	8/20/2014	2/20/2014	3/7/2014	59794	RC	Issued 03/27/2015
Gila Bend, Town of	20231	Min	9/8/2014	3/8/2014	4/3/2014	60003	RA	Issued 03/05/2015
Lower Pinal Creek Water Treatment Plant	24350	Min	9/9/2014	3/9/2014	3/4/2014	59793	CC	Issued 01/05/2015
ADOC - Eyman Complex	23485	Min	10/15/2014	4/15/2014	4/15/2014	60109	RA	Issued 10/28/2014
Flagstaff, City of - Rio de Flag Plant	23639	Maj	10/15/2014	4/15/2014	4/2/2014	60004	JM	Issued 03/09/2015
Patagonia, Town of (new plant)	25011	Min	10/15/2014	4/15/2014	4/4/2014	60005	RA	Issued 05/06/2015
Willcox, City of	25771	Min	10/15/2014	4/16/2014	4/21/2014	60110	CC	Issued 01/08/2015
Flagstaff, City of - Wildcat Hill WWTP	20427	Maj	11/18/2014	5/18/2014	5/9/2014	60246	JM	Issued 05/19/2015
Chaparral City Water Company	22381	Min	11/18/2014	5/18/2014	5/22/2014	60340	CC	Issued 03/10/2015
Sanders Unified School District	24422	Min	11/18/2014	5/18/2014	NA	NA	NA	Will not renew
Continental Country Club	25895	Maj	11/18/2014	5/18/2014	5/1/2014	60196	JM	Issued 05/22/2015
Mesa, City of - Southeast WRF	25151	Maj	12/17/2014	6/17/2014	6/17/2014	60641	JM	Issued 03/18/2015
Willow Springs WRF	25852	Min	12/17/2014	6/17/2014	NA	NA	NA	Will not renew
PVNGS Water Supply Pipeline	25836	Min	12/20/2014	6/20/2014	6/19/2014	60642	RC	Granted 05/01/2015

APS - WEST PHOENIX POWER PLANT	23159	Maj	1/19/2015	7/19/2014	7/16/2014	60903	RA	Issued 04/24/2015
ARIZONA SOILS COMPOST FACILITY	25941	Min	1/19/2015	7/19/2014	7/18/2014	60913	RC	Granted 05/22/2015
AZ GAME FISH PAGE MAIN	21245	Maj	2/1/2015	8/1/2015	7/24/2014	60969	JM	Issued 05/06/2015
USDOI BR - YUMA DESALTING PLANT	25348	Min	2/7/2015	8/7/2014	8/6/2014	60996	RC	In process. Substantive deficiency with mixing zone application.
CITY OF TOLLESON - WWTP	20338	Maj	2/14/2015	8/14/2014	8/18/2014	61118	CC	Granted 06/29/2015
USDA FS - APACHE SITGREAVES NF - BLACK MESA RANGER DISTRICT	25224	Min	3/1/2015	9/1/2014	8/29/2014	61120	SK	Granted 05/28/2015
CITY OF WINSLOW - WWTP	23833	Maj	3/8/2015	9/8/2014	9/8/2014	61207	RM	Public Notice Pending
TOWN OF FLORENCE - NORTH FLORENCE WWTP	25194	Min	3/8/2015	9/8/2014	9/5/2014	61202	RA	Issued 06/03/2015
SEDONA VENTURE	21807	Min	4/7/2015	10/7/2014	9/19/2014	61243	RM	Granted 06/25/2015
PIMA COUNTY - WWMD - GREEN VALLEY BNRO - WWTP	24937	Maj	4/19/2015	10/19/2014	9/25/2014	61246	CC	Granted 05/28/2015
CITY OF TOMBSTONE - WWTP	25577	Min	4/27/2015	10/27/2014	9/22/2014	61250	SK	In Public Notice
CITY OF PHOENIX - 91ST AVENUE WWTP	20524	Maj	6/30/2015	12/30/2014	NA	NA	NA	EPA Writing Permit
RED ROCK WATER RECLAMATION FACILITY	25143	Maj	6/30/2015	12/30/2014	12/30/2014	61640	CC	Issued NOI for Minor WWTP GP 05/04/2015
TOWN OF FLORENCE – SOUTH WWRF	25208	Maj	7/6/2015	1/6/2015	01/06/2015	61665	RM	In Public Notice
CITY OF MESA - GREENFIELD WRF	25241	Maj	8/10/2015	2/10/2015	01/08/2015	61664	JM	Grant Approval Pending
PINEWOOD SANITARY DISTRICT_KAYS BLACKMAN WWTP	25879	Min	10/14/2015	4/14/2015	04/14/2015	62234	SK	1st Draft Complete

Backlogged Permits

The following permits are more than 6 months past their expiration date

Permittee	AZPDES # AZ00--	Type	Permit Exp Date	Date Appl Due	Date Appl Rec'd	LTF #	Proj Mgr	Status
Big Park Domestic WWID	24082	Min	12/1/2010	06/01/10	5/26/2010	52778	SM	District requested renewal of nutrient variances. ADEQ received

								EPA preliminary approval of nutrient variance limits. Comments were received during external review from district requesting higher limits due to treatment plant upgrade delays. ADEQ resubmitted request to EPA for approval of revised variance limits.
US NPS GCNP - North Rim WWTP	110426	Min	1/23/2011	7/23/2010	7/16/2010	52982	RC	Park Service requested copper variance. ADEQ drafting copper variance request package for EPA approval.
US NPS GCNP - South Rim WWTP	22152	Min	2/24/2011	8/24/2010	8/24/2010	53126	RC	Park Service requested copper variance renewal. ADEQ drafting copper variance request package for EPA approval.
Jerome, Town of	21804	Min	10/23/2012	4/23/2012	4/18/2012	56012	RC	Town requested renewal of nutrient variance. ADEQ received preliminary EPA approval of nutrient variance limits. ADEQ will finalize drafting fact sheet and permit.
Houston Creek Landing	25305	Min	6/2/2013	12/2/2012	12/3/2012	57314	RC	Facility requested renewal of nutrient variances and a new request for copper. ADEQ will start drafting variance request package for EPA approval.
Flagstaff Meadows WWTP (formerly Bellemont)	24708	Min	7/24/2013	1/24/2013	02/13/2013	57685	CC	Variance for nutrients in existing permit. Variance renewal was not initially requested. Deficiency letters sent out 5/8/13 and 7/2/14 about variance renewal. Facility submitted variance request on 8/15/2014 but was missing worksheets. Another request sent 9/4/2014. Worksheets received in 06/15/2015. ADEQ reviewing variance request.

Cottonwood, City of - WWTP	24716	Maj	5/6/14	11/6/2013	11/7/2013	59016	JM	City requested renewal of nutrient variances. ADEQ has drafted variance request package and is preparing to send it to EPA for approval.
NEW AZPDES PERMIT APPLICATIONS								
Applicant	**AZPDES # AZ00--**	**Type**	**Date Appl Rec'd**			**LTF Number**	**Proj Mgr**	**Permit Status**
Tempe Town Lake ** carryover	24490	Maj	NA			NA		Research required prior to further action
NEW AZPDES PERMITS IN PROCESS/ISSUED								
Applicant	**AZPDES # AZ00--**	**Type**	**Date Appl Rec'd**			**LTF Number**	**Proj Mgr**	**Permit Status**
Gold Canyon WRP	AZIF 26409	Maj	3/12/2014			59815	RC	Issued NOI for Infrequent Dischargers GP 10/14/2014
High Country Pines II	AZMW 24279	Min	05/23/2014			60398	JM	Issued NOI for Minor WWTP GP 11/21/2014
TOWN OF BUCKEYE - TARTESSO WRF	AZIF 25127	Maj	07/15/2014			60905	SK	Issued NOI for Infrequent Discharger WWTP GP 02/13/2015
Somerton, City of - WWTP	26603 (prev #25186)	Maj	8/8/2014			61004	RM	Issued 03/02/2015
Bison Ranch WWTP (aka Bisontown LLC)	25399 (prev #25186)	Min	10/14/2014			61334	JM	Facility requested variance for copper. Variance worksheets being reviewed for completeness.
Verrado WRF	26794	Min	02/28/2015			61452	JM	In external/internal review
Chimney Estates LLC	26999	Min	05/20/2015			61531	JM	1st draft complete

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.2: CWA 401 Certification Review of Federal Permits and Licenses

Conduct CWA §401 Certification program to ensure activities being proposed for federal permits or licenses will meet surface water quality standards.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	1) Make certification decisions within LTF requirements on State 401 applications. (*Refer to 401 Certification Actions Table following Task 1.3.2.*) Report certification decisions. a) Regional CWA 404 general permits b) Individual CWA 404 permits c) Nationwide CWA 404 permits d) Other federal permit or licenses applications.	T = Quarterly	Surface Water

1st	2nd	3rd	4th	Ttl
0	0	0	0	0
4	1	3	7	15
8	11	2	15	36
0	0	0	0	0

1.3.2 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
PPG	0.58	33,254	14,632	22,482	70,368
TOTALS	**0.58**	**33,254**	**14,632**	**22,482**	**70,368**

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401's Issued for 1st Qtr. FY 2015

Project	Issued Date	Permit Type	Notes	CoE Number
US 95 - Ave 9E to Fortuna Wash	7/7/2014	individual	reduced Pub. Not. to 15 days at ADOT's request	SPL-2013-00155-KAT
Mojave Valley Park	8/6/2014	individual		SPL-2000-01767-WHM
SR86 Widening; Valencia to Kinney Rds. ADOT	8/6/2014	individual	Resubmittal after withdrawal.	SPL-2010-41-KAT
West Fork Black River Fish Barrier - US BuRec	8/8/2014	NWP 27		na
Prescott National Forest Stock Tank Stream Restoration Site H-4	8/8/2014	NWP 27		na
Lake Mohave Fish Habitat Enhancement Project	8/18/2014	NWP 27		SPK-2007-00464-SG
Oak Creek Canyon Bank Protection Project	8/26/2014	NWP 13	Individual certification due to Oak Creek OAW.	SPL-2010-1017-KAT
Zonia Mine Bank Stabilization Project	8/26/2014	NWP 13	Individual certification due to French Gulch impaired water. A new format was generated for NWP, Individual cert.	na
Santa Cruz Wash Improvements Midway Flood Control District	9/3/2014	individual		SPL-2013-00353-KAT

US 60, Silver King Section & Superior Streets Project	9/2/2014	NWP 14	A new format letter was generated for this certification.	SPL-2011-01018-KAT
Raytheon B14045 Phase III Project	9/4/2014	NWP 13	This application was withdrawn in Azurite. Sent letter stating project was already conditionally certified; individual certification not needed.	na
Duncan Emergency Flood Fight Project	9/19/2014	NWP 13	The Corps initiated this permit due to severe flood damage. Was listed as emergency.	na
Wiltbank Low Water Crossing Project	10/3/2014	NWP 14	Discussed with Linda, did waiver of indiv cert for OAW due to small residential project	na
Nelson Galloway Driveway Repair Project	10/3/2014	NWP 3	Did waiver of indiv cert due to low impact project by homeowner	na
Nogales Subdivision MP 57.88, 60.5 to 60.8 Flood Repair	10/7/2014	NWP 3 and 13		SPL-2010-800-RJD
Lee Valley Creek Fish Barrier Removal and Channel Stabilization Project	10/17/2014	NWP 18	Was on annual leave when application was received, it was processed immediately upon return to the office.	SPL-2014-607-AP
Various Bridges (861, 202, 242, 983, 243, 251)	11/3/2014	NWP 14		SPL-2012-101-KAT
Red Rock Loop Road Project	11/12/2014	NWP 14		SPL-2014-000353-PC
Nogales Wash and International Outfall Interceptor Project	11/19/2014	NWP 3		NA
DC Ranch Planning Units II and IV	11/19/2014	individual	This was a time extension to an individual permit. The scope of the project did not change and was considered a modification of an existing permit.	SPL-1999-16169-LSF
GWP Upper Gila River Restoration Project	12/4/2014	NWP 27		SPL-2014-446-RJD
Cave Creek Bank Restoration/Foothills Project	12/5/2014	NWP 45	This project required the waiver of individual cert.	na

			because it was not conducted within the 14-day timeframe to make it conditionally certified.	
TEP: North Loop to Demoss Petrie Reconductor Project	12/12/2014	NWP 12		na
Cave Creek Bank Restoration/Rock House Road Project	12/15/2014	NWP 45		SPL-2014-690-RJD

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.3: Regional Water Quality Management Planning

Carry out state and federal requirements of regional Water Quality Management Planning Program (CWA 208 Program). Track implementation of new WQM Plans (e.g., Yuma, SEAGO).

Provide technical assistance to regional planning agencies and regulated community.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
604(b) XIII/XIV	1) Process WQM Plan Amendments/Updates. a) Report status of amendments received. *(Refer to Regional WQM Planning Activity table following Task 1.3.3)*	T = Quarterly	Surface Water
604(b) XIII/XIV	2) Process 208 conformance determinations. Report determinations. *(Refer to Regional WQM Planning Activity table following Task 1.3.3)*	T = Quarterly	Surface Water
PPG	3) Revise State Water Quality Management Plan a) Conduct stakeholder process b) Draft Plan c) Finalize Plan	T = a) 9/14 b) 12/14 c) 6/15	Surface Water

1.3.3 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
PPG	0.20	8,810	3,876	5,956	18,643
604(b) XIII	0.15	6,607	2,378	4,218	13,203
604(b) XIV	0.65	28,632	11,165	18,685	58,483
Aid to Orgs: Council of Gov't (604(b) XIV)					40,000
TOTALS	**1.00**	**44,049**	**17,419**	**28,859**	**130,329**

Year End Summary
Del. # 1a) Region 9 EPA provided approval letters for the four 208 amendments: the Maricopa Association of Governments (MAG) Point Source Update; EPCOR West Valley Regional WRF; Gold Canyon WWTP; Liberty Utilities, Palm Valley; and Sarival WRFs Service Area Expansion. There are no amendments pending approval at this time.
Del. **# 2**) See revised Table – Task 1.3.3
Del. **#3**) Revision of the State Water Quality Plan was placed on hold while MAG and ADEQ staff proceeded with 208 process improvement meetings.

ADEQ staff began 208 process improvement meetings with MAG staff in March 2015. After multiple meetings, the process is completed with some improvements in the MAG

208 amendment process: A reduction in 208 review time and some duplication of procedures were eliminated. There may be future discussions to evaluate how the new MAG 208 process has worked and whether further process changes can occur. ADEQ will evaluate what the next step will be regarding the revision of the State Water Quality Management Plan.

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TASK 1.3.3 – REGIONAL WATER QUALITY MANAGEMENT PLANNING ACTIVITY

Designated Planning Agency	Amendments	Conformance Review	Date Received	Date Completed	Status
Central AZ Govts.	Gold Canyon WWTP		11/2012		At EPA for Review
Central AZ Govts.		Volkswagen Proving Grounds	7/1/14	7/7/14	In conformance
Central AZ Govts.		North Florence WWTP	9/25/14	9/25/14	In conformance
Central AZ Govts.	CAG 208 Plan				Still in regional review
MAG	MAG Point Source Update		8/12/14		Sent to EPA 12/19/14
MAG	EPCOR West Valley WRF		12/11/14		Sent to EPA 1/16/15
MAG		Mesa SE WRF	6/30/14	6/30/14	In conformance
MAG		City of Tolleson WRF	9/16/14	9/16/14	In conformance
MAG		City of Goodyear Vadose project	8/7/14	8/7/14	In conformance
MAG		City of Buckeye Central Plant	9/12/14	9/12/14	In conformance
MAG		Tartesso WRF	8/6/14	8/6/14	In conformance
NACOG		Bison Ranch	11/3/14	11/3/14	In conformance
NACOG		Mormon Lake Lodge	10/17/14	10/20/14	In conformance
NACOG		Wildcat WRF	7/7/14	7/7/14	In conformance
NACOG		Black Mesa Ranger Station	9/29/14	9/29/14	In conformance
NACOG		Show Low WWTP	9/26/14	10/3/14	In conformance
NACOG		City of Winslow	10/1/14	10/1/14	In conformance
PAG		Green Valley	9/29/14	10/6/14	In conformance
SEAGO		Patagonia WWTP	7/14/14	7/15/14	In conformance
Yuma County		Villa de Rey WWTP	7/1/14	7/7/14	In conformance
Yuma County		City of Somerton WWTP	10/1/14	10/1/14	In conformance
Total	4	16			

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.4: Surface Water Program Development

Perform support activities for surface water program including development of program rules, procedures, and policies.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG NPS in PPG	1) Implementation procedures for: a) Finalize antidegradation implementation procedures. b) Initiate fish consumption implementation procedures public process. Goal 1, obj. a, strategy ii	T = a) 6/15 **A = 4/15** b) 1/15 **A = 1/15**	Surface Water
PPG	2) Finalize triennial review a) Initiate stakeholder process b) Public notice draft rule c) Complete triennial review Goal 1, obj. a, strategy ii	T = a) 4/14 **A = 9/14** b) 8/14 (will be new Pub Not w/new governor) c) 12/14 **See Summary**	Surface Water
PPG NPS in PPG	3) Finalize Lakes Narrative Nutrient Standards* Goal 1, obj. a, strategy i	T = 6/15 **See Summary**	Surface Water

*Pending EPA approval

1.3.4 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-AZPDES NPS in PPG {Match}	0.18	12,444	5,475	8,413	26,332
NPS in PPG	0.49	29,396	12,934	19,874	62,204
PPG	0.35	17,675	7,777	11,950	37,402
WQARF NPS in PPG (Match)	0.08	4,330	1,905	2,927	9,163
WQFF-AZPDES	0.30	25,823	11,362	17,458	54,644
TOTALS	**1.40**	**89,668**	**39,454**	**60,623**	**189,745**

Year-end Summary
1a- Completed- Antidegradation Implementation Procedures were finalized in the second half of FY15
1b- Completed- A meeting was held in January 2015 with Dept. of Health Services and AZ Game and Fish to determine the public process when issuing fish consumption advisories.

2a- Completed- An initial stakeholder meeting was held on September 29, 2014.
2b- Not met- Since the triennial review was very early in the rule-making process it was determined that ADEQ would have to request a rules moratorium exemption from the new Governor. A request for an exemption was submitted in February 2015.
2c- Not met- see 2b

3- Not met- The Lakes Narrative Nutrient Standards have not been finalized. However, data analysis and interpretation has continued and will result in a revised Arizona Trophic State Index based on elevation categories. The revised matrix will likely result in lower chlorophyll-a endpoints and be based upon annual mean rather than peak season values. Additional information is still needed from the contractor to complete the matrix revision.

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.5: Ambient Monitoring Program

Conduct ambient monitoring program, which includes rivers and streams, lakes and reservoirs, groundwater, and fish tissue and sediment sampling for priority pollutants. Monitoring to include targeted characterization, planning and/or probabilistic sites in support of 305(b) assessment process.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG NPS in PPG 106 Mon - 3 106 Mon - 4	1) Conduct ambient monitoring program per FY15 sampling and analysis plan (SAP) throughout Arizona. a) Ambient stream sampling b) Groundwater sampling c) Lake sampling d) Fish sampling Goal 1, obj. a, strategy i	T = a) 128 stream samples **A = 126 of 128** b) 45 groundwater samples **A = 82 of 45** c) 20 lake samples **A = 29 of 20** d) 30 fish samples A = **30 of 30**	Surface Water
PPG	2) Send FY15 SAP to EPA. Goal 1, obj. a, strategy i	2a) 8/14 **A = 7/14**	Surface Water
	3) Prepare FY16 ambient monitoring plan. Goal 1, obj. a, strategy i	2) T = 5/15 **A = 5/15**	
	4) Complete groundwater basins reports for: a) Avra Valley b) Gila Bend Goal 1, obj. a, strategy i	T = a) 12/14 **A = 11/14** b) 6/15 **A = 6/15**	Surface Water
	5) Revise Quality Assurance Project Plan based on EPA comments.	T = 6/15 **A = 3/15**	Surface Water

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.5: Ambient Monitoring Program (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.3.5 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQARF NPS in PPG {Match}	4.00	191,974	84,469	129,790	406,232
WQARF NPS Proj 24 [Match]	0.25	11,198	4,927	7,571	23,696
106 Monitoring - 3	0.23	9,559	4,206	6,463	20,228
NPS in PPG	1.91	100,339	44,149	67,837	212,325
PPG	1.67	77,086	33,918	52,116	163,120
106 Monitoring - 4	0.55	24,837	10,928	16,792	52,557
WQARF NPS Proj 25 [Match]	0.10	4,700	2,068	3,178	9,946
WQARF	0.25	9,500	4,180	6,423	20,103
Contract: Ambient Sampling (PPG)					15,000
Contract: USGS ~~(PPG)~~ (WQARF)					90,000
Contract: Ambient Sampling (WQARF)					150,000
TOTALS	**8.96**	**429,193**	**188,845**	**290,169**	**1,163,207**

Year End Summary
Deliverable 1a is off target by 2 samples. During the last run of the year one site was dry and one missed due to medical related issues.

One hundred eighty-five surface water samples were collected during FY15. All programs are now in a joint sampling and analysis plan, which streamlines logistics and budgeting. Forty streams were sampled during FY15 including 3 streams that were never sampled before. Seven lakes were sampled in 2015 and 16 fish sites. All sites were primarily located in warmwater sites (>5,000 feet) throughout Arizona.

Eighty-two groundwater samples were collected during FY15 in the Lower Gila, Salt River, and Gila Bend basins. Reports were completed for the Avra Valley and Gila Bend basins.

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.6: 106 Monitoring

Conduct monitoring Initiative (MI) program for implementation of Arizona approved comprehensive monitoring strategy.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
106 Mon-3 106 Mon-4 NPS in PPG	1) Conduct nutrient monitoring for Rivers and Streams per FY15 sampling and analysis plan. Goal 1, obj. a, strategy i	T = Quarterly	Surface Water
106 Mon-3 106 Mon-4 NPS in PPG	2) Develop recreational monitoring program a) Establish policies and procedures to identify unsanitary beach conditions and work with land owners and health departments to protect human health. b) Begin identification of highly recreated streams and lakes. Goal 1, obj. a, strategy i; Goal 1, obj. b, strategy ii	T = a) 1/15 **A = 1/15** b) 6/15 **A = 1/15**	Surface Water
106 Mon-3 106 Mon-4 NPS in PPG	3) Intermittent Streams a) Pilot test flow sensors on known intermittent streams b) Develop randomized network of flow sensors to develop intermittent stream target population and map. c) Begin to deploy random network flow sensors Goal 1, obj. a, strategy i	T = a) 11/14 **A = 11/14** b) 3/15 **A = 3/15** c) 6/15 **Off target**	Surface Water

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.6: 106 Monitoring

Conduct monitoring Initiative (MI) program for implementation of Arizona approved comprehensive monitoring strategy.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.3.6 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQARF NPS in PPG {Match}	0.17	8,782	3,864	5,937	18,583
106 Monitoring - 3	0.22	9,143	4,023	6,181	19,347
NPS in PPG	0.22	11,906	5,239	8,049	25,194
106 Monitoring - 4	0.92	44,996	19,797	30,421	95,215
PPG	0.12	6,494	2,857	4,390	13,742
TOTALS	**1.65**	**81,321**	**35,781**	**54,980**	**172,081**

Year End Summary
Deliverable 3c is off-target due to a 6 month hiring delay. This task is also off-target due to a procurement delay in purchasing intermittent flow sensors. The expected completion date is the end of August 2015.

Twenty-seven chlorophyll a and periphyton samples were collected in FY15 in support of the development of the narrative nutrient standard for streams during the spring sampling season. Nutrients (TN & TP) were collected at all sites for all quarters.

Outreach continues for recreational monitoring. We have met with all county health departments (both the environmental side and the human health side). Highly recreated areas have been identified throughout Arizona and policies and procedures have been developed to protect human health in these areas. Future work includes working directly with the Forest Service, which is the primary land owner for the sites ADEQ identified as highly recreated.

Sensors have been bought and deployed for the intermittent stream pilot test. This project has been slowed down due to hiring delays and delays in procuring the solar panels for the cameras. Tony Olsen with EPA has assisted with random site selection and over 80 sites have been evaluated to get 20 target sites. An additional 20 sites will be selected in the following year to complete the study.

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.7: 305(b) Water Quality Assessment Report and 303(d) List

Develop Integrated Report and list of impaired waters.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG NPS in PPG	1) Finalize 2012-2014 305(b) Integrated Report and 303(d)-List. a) 45-day AAR Notice begins b) Submit 303(d) List to EPA for approval Goal 1, obj. a, strategy i	T = a) **12/5/14** **A = 1/9/15** b) **2/2/15** **A = 3/16/15**	Surface Water
PPG NPS in PPG	2) Identify waters that were either delisted or showing water quality improvements as candidates for SP-12 or W-10 success stories. Improvements in both nonpoint and point sources will be evaluated. a) Develop list of candidate waters b) Draft success stories and submit to EPA Goal 4, obj. a, strategy i; Goal 4, obj. b, strategy i	T = a) 12/14 **A 12/19/14** b) 6/15 **See Summary**	Surface Water
PPG NPS in PPG	3) Begin 2016 305(b)/303(d) Report/List. Goal 1, obj. a, strategy i	T = 4/16 **See Summary**	Surface Water

1.3.7 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
NPS in PPG	0.62	31,459	13,842	21,269	66,570
PPG	0.56	30,098	13,243	20,349	63,690
TOTALS	**1.18**	**61,557**	**27,086**	**41,617**	**130,260**

Year End Summary
Deliverable 1- ADEQ is still waiting for EPA to take formal action on approving the 2012/14 303(d) List. We have been working with R9 staff to answer questions and supply additional data to support their review. ADQE anticipates that final action will occur in FY1 Q1 as there appear to only be a few remaining issues.

Deliverable 2- ADEQ continued to work with EPA R9 to understand the criteria and required format for the success stories using the Turkey and Pinto Creek projects to develop the template for future reference. 2(b) has not been met; Pinto Creek was revised and resubmitted to EPA, however, additional comments were made resulting in the final documents not being completed by the end of FY15. Work on previously identified success story waters will continue in FY16.

Deliverable 3- Planning for the 2016 Assessment began in the second half of FY15. External data uploads into the WQDB continued as the program transitioned to the Monitoring and Assessment Unit. A timeline was developed to keep the project on pace to be submitted to EPA by the end of the state FY16.

GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.8: TMDL Development and Implementation

Develop TMDL studies and implementation plans to improve surface water quality. Conduct effectiveness monitoring to determine improvements in water quality after BMPs have been implemented.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG NPS in PPG	1) TMDL Reports a) Submit 6 TMDL reports to EPA for final approval by June 2015. b) Complete 1st (30 day) public notice for 5 additional TMDLs by June 2015; (*Refer to Table 1 - TMDL Development.*) Goal 1, obj. c, strategy i	T = Semi-Annual Status Table Updates	Surface Water
PPG NPS in PPG	2) Continuing data collection and analysis for TMDL development. Target is 17 TMDLs on 7 waterbody segments; (*Refer to Table 2 - Continued TMDL Development*.) Goal 1, obj. c, strategy i	T = Semi-Annual Status Table Updates	Surface Water
PPG NPS in PPG	3) Conduct effectiveness monitoring. a) Monitor the remedial activities on 3 Measure W waterbodies. b) Coordinate with WQIG Unit to track progress in meeting WQD Performance Measure on 5 waters. c) Coordinate with NRCS to conduct effectiveness monitoring on NWQI watershed; *(Refer to Table 3 - Effectiveness Monitoring.)* Goal 4, obj. a, strategies i & ii	T = Semi-Annual Status Table Updates	Surface Water
PPG NPS in PPG	4) Develop TMDL implementation plans. a) Complete 1 TMDL implementation plan b) Determine status of Phoenix Area Urban Lake Management Plans Goal 1, obj. c, strategies ii & iii	T = Semi-Annual Status Table Updates	Surface Water

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.8: TMDL Development and Implementation (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	**5) Coordinate efforts with EPA.** a) TMDL staff will participate in monthly conference calls to discuss TMDL development, implementation and effectiveness monitoring results. TMDL staff will join EPA Management, ADEQ Management and Planning Staff on a separate quarterly call to discuss budget related issues (see Task 1.5.2, Deliverable 3c). **b) Staff will participate in testing FY 16 Pilot Measure with EPA headquarters and R9.**	T = Monthly a) **A = 8/7, 8/14, 10/7, 10/23, 11/5, 12/2; 2/15, 3/15, 4/15, 5/15** b) **A = 7/29, 9/3**	Surface Water

1.3.8 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-AZPDES NPS in PPG {Match}	0.04	2,533	1,115	1,713	5,360
PPG	0.48	31,082	13,676	21,014	65,772
NPS in PPG	2.70	146,746	64,568	99,212	310,526
WQARF NPS in PPG (Match)	0.66	28,384	12,489	19,190	60,063
Contract: TMDL Sampling (WQARF)					**20,000**
Contract: TMDL Sampling (PPG)					35,000
Contract TMDL Sampling (NPS in PPG)					10,000
~~Contract: TMDL Sampling (NPS P&A Base)~~					
~~Contract: TMDL Sampling (NPS P&A Incre)~~					
TOTALS	**3.88**	**208,745**	**91,848**	**141,129**	**506,721**

See Tables 1 – 4 below for narrative details regarding the deliverables addressed in Task 1.3.8

TMDL Projects Quarterly Status
1.3.8 Table 1 – TMDL Development Project Completion by June 2015

Segment (impairment)	Milestone (target)	Actual/Comments
Watson Lake (nutrients, high pH, low D.O.)	**45-day AAR Notice begins (12/12/14)** 45-day AAR Notice ends **(1/26/15)** Submit final report to EPA **(2/7/15)**	The Watson Lake TMDL was appealed by the City of Prescott during AAR review. City of Prescott staff and their respective legal councils met 6/16/15 to discuss settlement of the appeal. Settlement details are currently being negotiated. ADEQ anticipates submitting the final Watson TMDL to EPA for approval by 8/31/15.
Granite Creek- headwaters to Willow Creek (Low D.O., *E. coli*)	30-day public comment period ends **(11/12/15)** 45-day AAR Notice begins **(3/6/15)** Submit final report to EPA **(5/4/15)**	Public comment on the Granite TMDL closed 1/29/15. Responses to comments are still being developed. The TMDL and responses will be submitted to AAR for public notice during August 2015.
Miller Creek (*E. coli*)	Same schedule as Granite Creek *E. coli* TMDL	See Granite Creek above
Manzanita Creek (*E. coli*)	Same schedule as Granite Creek *E. coli* TMDL	See Granite Creek above
Butte Creek (*E. coli*)	Same schedule as Granite Creek *E. coli* TMDL	See Granite Creek above
Lyman Lake (Hg in fish tissue)	Complete Data Summary Report **4/24/15**	This task was not completed due to time spent revising Watson Lake and Granite Creek TMDLs. Prioritization of this task will be reevaluated in FY16.
Alamo Lake (Hg in fish tissue)	**Complete Data Summary Report (2/27/15)**	This task was not completed due to time spent revising Watson Lake and Granite Creek TMDLs. Prioritization of this task will be reevaluated in FY16.
Parker Canyon	**Finalize Data Summary Report (12/19/14)**	This task was not completed due to time spent revising Watson Lake and Granite Creek TMDLs. Prioritization of this task will be reevaluated in FY16.

Queen Creek- headwaters to Superior WWTP (Cu, Pb) Queen Creek- Superior WWTP to Potts Canyon (Cu) Queen Creek- Potts Canyon to Whitlow Dam (Cu) Arnett Creek- Headwaters to Queen Creek (Cu) Unnamed Trib to Queen Creek (-991) (Cu) Unnamed Trib to Queen Creek (-1843) (Cu) Unnamed Trib to Queen Creek (-472) (Cu)	**Complete draft TMDL (3/6/15)** Public Comment Period begins **(5/11/15)**	Drafting of the TMDL did not occur in FY15, and will begin in FY16.
Pinto Creek- headwaters to Ripper Spring* (Cu) Pinto Creek- Ripper Spring to Roosevelt Lake* (Cu)	Complete Draft TMDL Report **(12/5/14)**	Draft TMDL has been completed and reviewed internally. Once Triennial Review process begins again a timeline for public comment period will be determined.
Gibson Mine Tributary - Headwaters to Pinto Creek* (Cu) Five Point Mountain- Headwaters to Pinto Creek* (Cu)	Public comment period begins **(2/2/15)**	See above.
	45-day AAR Notice begins **(5/29/15)**	See above.
Gila River-Centennial Wash to Gillespie Dam (Se, B)	Public comment period begins **(12/8/14)**	ADEQ delayed the public comment period on this TMDL in order to allow for time to provide direct outreach and education to permittees that would be impacted by the TMDL. The public comment period ended 5/29/15, and responses are currently under internal review. The TMDL will be submitted to AAR for public notice in August 2015.
	45-day AAR Notice begins **(4/17/15)**	

*completion dependent upon adoption of Pinto Creek site specific copper standard

TMDL Projects Quarterly Status
1.3.8 Table 2 – Continued TMDL Analysis and Development

Segment	Impairment	Purpose	Comments
Mule Gulch- headwaters to above Lavender Pit	Cu	Coordinated monitoring with FMI to determine current WQ status	Freeport McMoRan Copper Queen branch verbally agreed to support ADEQ monitoring efforts. A delist report removing pH, Cd, and Zn from the 303(d) List was completed in Q2. Equipment will be installed in Q1 FY16 to restart WQ sampling to determine current conditions.
Mule Gulch- Above Lavender Pit to Bisbee WWTP	Cu, pH	Coordinated monitoring with FMI to determine current WQ status	See Mulch Gulch headwaters to above Lavender Pit
Mule Gulch- WWTP to Highway Bridge	Cd, Cu, pH, Zn	Coordinated monitoring with FMI to determine current WQ status	See Mulch Gulch headwaters to above Lavender Pit
Brewery Gulch- headwaters to Mule Gulch	**Cu**	Coordinated monitoring with FMI to determine current WQ status	See Mulch Gulch headwaters to above Lavender Pit
Gila River-Coyote Wash to Fortuna Wash	Se, B	Complete delist report (9/1/14)	Delist report was completed August 1.
East Verde River-American Gulch to Verde River	As	Complete draft TMDL or delist report (10/1/14)	It was determined that the arsenic exceedances can be attributed to natural conditions and sampling of pooled, stagnant water in original listing dataset. An arsenic delist report was completed in Q3.
Big Bug Creek Watershed Project	Metals	Complete data summary report **12/31/14**	Two additional samples were collected in Q1 ending pre implementation sampling. All water quality data were shared with USFS to aid them in securing funding for implementation of the EE/CA. The data summary draft was submitted for internal review 12/4/14. Finalization of the draft was delayed due to other projects, but is anticipated for FY16 Q1.

TMDL Projects Quarterly Status
1.3.8 Table 3 – Effectiveness Monitoring

Segment	Impairment	Purpose	Comments
Boulder Creek	As, Cu, Zn	Measure W/WQD PM	ADOA contractor began Phase 1 work to determine the feasibility of constructing the access road within budget; to be completed January 2015. ADEQ Compliance continues to work with Hillside Bagdad (middle pile). Their compliance schedule required MSGP NOI and SWPPP to be submitted by 9/30. That deadline was not met. In addition to monthly update phone calls, ADEQ staff conducted site visits in November to see the progress BLM had made on the UTP and to discuss issues that the contractor had consolidating the UTP. An additional two visits were conducted in February to view the finished UTP project and to scout proposed road routes for the LTP. ADOA's contractor has proposed a new road route, and partners will meet with Freeport in early FY16.

Pinto Creek	Cu	Measure W/WQD PM	ADEQ collected additional stormwater samples in Q1 to measure the effectiveness of Gibson Mine's re-engineered stormwater controls. Analysis indicates that the dissolved copper concentration has been reduced by 85% from pre-remediation levels. Additional relatively minor work could be completed at the site to further improve water quality. Staff drafted a data summary to share with Gibson Mine property owners that documents progress to date and highlights areas where additional work could be completed. Staff also drafted updates to the Pinto Creek SP-12 report, which was submitted to EPA for comment in Q4. In addition, a GIS-based project summary has been drafted to serve as an interactive companion to the SP-12 report. Both the report and GIS summary should be finalized in FY16 Q1.
Turkey Creek	Cu, Pb	Measure W/WQD PM	Additional samples were collected above and below the Golden Belt and Golden Turkey mines in Q1 and Q3. Monitoring will continue into FY16. The SW Stormwater Permits Unit sent a MSGP nonfiler letter to the Blue Belle mine which may be a source of lead, no response has been received.

Tonto and Christopher Creeks	Nitrogen and *E. coli*	WQD PM	A second summer season sampling program was completed in September. An additional 6 sampling events took place allowing ADEQ to calculate a second consecutive nitrogen annual mean possibly leading to a delist. A data summary report was drafted which includes intensive recreational season data from 2013 and 2014. The report will be finalized FY16 Q1. No annual mean nitrogen exceedances were observed, however, *E. coli* exceedances were routinely measured when turbidity was elevated.
Upper Little Colorado River	Turbidity	WQD PM/NWQI	A SAP was developed to determine effectiveness of WQIG and NWQI projects in the LCR Headwaters watershed. Contract information has been received for 2 NWQI projects. Effectiveness monitoring and BMPD evaluation data was collected for a total of 6 grant projects.
San Pedro NWQI watershed	*E. coli*	NWQI	A SAP was developed to determine effectiveness of WQIG and NWQI grants in the San Pedro watershed. Contract information was received for 2 NWQI projects; ADEQ staff has met with landowners for both projects and sampling is planned for FY16. Effectiveness monitoring and BMP evaluation data was collected for a total of 5 grant projects.
Additional WQD PM waters as warranted		WQD PM	3 reaches of the LCR, Rainbow Lake, Butte Creek, and Manzanita Creek were added to the Master Target List in FY16. Success in meeting the WQD PM is tracked by waterbody and individual pollutant, with 103 reach/pollutant combinations on the list.

Measure W- 2002 Baseline Waters
WQD PM- Water Quality Division Performance Measure
NWQI- NRCS National Water Quality Initiative

TMDL Projects Quarterly Status
1.3.8 Table 4 –Implementation Plans

Segment	Comments
Determine status of Phoenix Area Urban Lake Management Plans- develop or implement as needed	There was no activity on this project during FY15 due to competing priorities. The development of a lake management plan template has been included in the FY16 workplan.
Queen Creek (multiple reaches, 1 TIP)	No activity on this project due to the delay in TMDL development.

GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.9: NPS Base Program Management and 319(h) Project Management

Plan, manage and implement a Nonpoint Source Pollution Program, including the development of watershed management and watershed implementation plans.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
NPS in PPG	1) Provide technical support to watershed groups and other entities to address NPS pollutant impacts and conduct education/outreach efforts to increase public awareness of NPS impacts to surface and groundwater resources. a) Statewide: Participate in education events to present on nonpoint source issues upon request. Provide ADEQ data/assistance with data interpretation and address public questions or concerns as requested. b) Targeted Watersheds: Partner with other state and federal programs to provide watershed-specific education about BMPs that both protect water quality and provide other benefits to land owners/managers. c) Provide maps and GIS assistance to internal and external customers assisting with local sampling and volunteer training efforts. Goal 1, obj b; Goal 3, obj b; Goal 4, obj a, strategy i;	T = As requested a) T = As requested **A = 7/14, 8/14, 9/14, 10/14, 11/14, 1/15, 4/15, 5/15, 6/15** b) T = 5/15 **A = 5/15** c) T = As requested **A = 7/14, 8/14, 9/14; 10/14, 11/14, 12/14, 2/15, 3/15, 4/15, 5/15, 6/15**	Surface Water
NPS in PPG	2) Provide oversight of existing partnership agreements with other state and Federal agencies. Update as necessary to better reflect NPS Management Plan goals. FY15 efforts will focus on: a) Coordinating with NRCS to conduct effectiveness monitoring in NWQI watersheds and update target watershed recommendations as needed. *(Also see Task 1.3.8)* b) Coordinate with ADOA and ASLD on the Hillside Mine lower tailings pile remediation project. i) MOU ii) Access agreements iii) Design phase iv) Construction phase c) Updating existing MOU with Arizona Game & Fish Goal 2, obj a, strategy vii; Goal 3, obj c, strategy i	T = a) Ongoing **A = 9/14, 12/14, 6/15** b) Ongoing **A = 7/14, 9/14, 10/14, 12/14, 2/15, 3/15, 4/15, 6/15** c) 9/14 **Complete**	Surface Water

GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.9: NPS Base Program Management and 319(h) Project Management (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
NPS in PPG	3) Update the Impaired Waters Improvement Table to reflect the most recent assessment and listing information, funding priorities and partnerships. Goal 1, obj b, strategy i; Goal 4, obj b, strategy i	T = 9/14 **A = 11/14**	Surface Water
NPS in PPG	4) Watershed Planning and Implementation (*Refer to Table 1.3.9: Status of Targeted Watershed Activities*.) a) Santa Cruz watershed plan development i) Finalize sampling plan with WIC ii) Initiate preliminary watershed surveys and data collection activities iii) Initial draft of watershed plan submitted to EPA for comment b) Granite Creek watershed plan update i) Submit draft update to EPA for comment ii) Submit final update to EPA for approval 4a: Goal 1, obj c, strategy ii; 4b: Goal 1, obj c, strategy iii	T = ai) 7/14 **Complete** aii) 8/14 **Complete** aiii) 6/15 **See Summary** bi) 4/15 **See Summary** bii) 6/15 **See Summary**	Surface Water
NPS Proj 24 PPG	5) Solicit, evaluate and select WQIG applications. a) WQIG Cycle 15 i) Technical Review and applicant presentations ii) Final evaluation and funding recommendations iii) Develop and execute grant agreements iv) Perform preliminary site visits and collect data to assess pre-implementation site and water quality conditions b) WQIG Cycle 16 i) Conduct scoping meetings in targeted watersheds to encourage the development of WIP implementation projects. ii) Release Cycle 16 RFGA iii) Develop and conduct grant workshops and other types of outreach for grants, including providing technical assistance and training to improve the quality of grant proposal submissions Goal 2, obj b, strategy i; Goal 3, obj b, strategy i; Goal 3, obj b, strategy ii	T = ai) 7/14 **A = 7/14** aii) 8/14 **A = 8/14** aiii) 9/14 **Complete** aiv) 10/14 **Complete** bi) 4/15 **A = 11/14** bii) 5/15 **A = 11/14** biii) 6/15 **A = 11/14**	Surface Water Director

GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.9: NPS Base Program Management and 319(h) Project Management (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
NPS in PPG	6) Oversee previously awarded 319 projects and contracts. a) Approve reporting and reimbursement requests for active projects. b) Oversee UA contracts to: i) Conduct watershed modeling to assist in identifying WQIP subwatersheds. ii) Provide technical and educational support to targeted watersheds and assist in WQIP and Volunteer Monitoring Program development. iii) Provide load reduction data for WQIG projects addressing nitrogen, phosphorus and sediment issues, as well as other load reduction estimates as applicable. Goal 2, obj b, strategy ii; Goal 3, obj b, strategies i & ii; Goal 4, obj b, strategy i	T = a) Ongoing **A=7/14, 8/14, 9/14, 10/14, 11/14, 12/14** bi) 9/14 **See Summary** bii) 6/15 **See Summary** biii) 2/15 **A = 2/15**	Surface Water
NPS in PPG	7) Coordinate with TMDL Unit to conduct BMP effectiveness evaluations and monitoring on past WQIG projects. *(For additional information see Task 1.3.8 #3.)* a) Develop list of projects and associated monitoring needs for FY15 based on waters identified in *Task 1.3.8 Table 3*; initiate evaluations. b) Coordinate with TMDL Unit to track progress in meeting WQD Performance Measure on 5 waters. Goal 4, obj a, strategy i	T = a) T= semi-annual table updates b) 6/15 **See Summary**	Surface Water
	8) Continue to Implement TMDL/319 Kaizen and Grants & Outreach Unit Staff Workout action items. Goal 1, obj b, strategy i; Goal 1, obj c, strategy ii; Goal 3, obj b, strategy i; Goal 3, obj b, strategy iii	T = Provide EPA with quarterly updates	Surface Water

GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.3.9: NPS Base Program Management and 319(h) Project Management (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
NPS PA I PPG	9) Report on NPS program progress and successes. a) Submit annual NPS report in accordance with EPA's annual reporting requirements outlined in NPS Program and Grants Guidelines for States & Territories. i) Submit draft for EPA review and comment ii) Submit final report b) Participate in monthly teleconferences with EPA Region 9 to discuss NPS program activities. c) Coordinate with TMDL Unit to document success of implementation in Measure W watersheds (see *Task 1.3.8 # 3*). d) Report project activities and input load reduction information into GRTS database. i) Input load reduction data for federal FY15 implementation projects into GRTS ii) Input all mandated elements for FY 15-awarded projects into GRTS; upload final reports for all projects closed out during FY15. iii) Attend annual GRTS meeting and regional GRTS training (as scheduled). Goal 4, obj. b	T = ai) 7/14 **A = 10/14** aii) 9/14 **A = 11/14** b) Monthly **A = 7/14, 8/14, 9/14, 10/14, 11/14, 12/14** c) Semi-annual table updates. **(See Task 1.3.8 #3)** di) 2/15 **A = 2/15** dii) 6/15 **A = 6/15** diii) As scheduled **A = 10/14**	Surface Water

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GOAL #2: Protecting America's Waters	Program #4500: Surface Water Regulation
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems	

TASK 1.3.9: NPS Base Program Management and 319(h) Project Management (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.3.9 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
NPS in PPG	4.77	237,447	104,477	160,533	502,457
NPS P&A (Base)	0.15	8,395	3,694	5,676	17,764
NPS Proj 24	0.25	13,991	6,156	9,459	29,606
WQARF NPS in PPG (Match)	1.25	62,500	27,500	42,255	132,255
PPG	0.50	18,924	8,327	12,794	40,045
Aid to Orgs: NPS Projects (NPS Proj 25)					1,247,500
Santa Cruz Watershed (NPS Proj 25)					20,000
TOTALS	**6.92**	**341,257**	**150,153**	**230,717**	**1,989,626**

Year End Summary
Deliverable 1:
Staff participated heavily with stakeholders in the Rainbow Lake, Granite Creek, Oak Creek, and San Pedro and Santa Cruz watersheds in FY15. A total of 89 volunteers were trained across the state to collect data in support of watershed planning projects. Staff also participated in outreach events and delivered presentations for Earth Day at Phoenix College, the Arizona Riparian Council, NAU, Coconino NRCD Forum, and the Little Colorado River Winter Watershed Conference.

Close partnerships were further developed with local NRCS offices, NRCD branches, and AZGFD Landowner Relations staff throughout the state in FY15. These entities help us "translate" the goals and benefits of WQIG projects into shared benefits for ranchers in our rural Targeted Watersheds. ADEQ staff meets with these partners prior to releasing WQIG funding cycles so that their staff can aid in WQIG outreach and encourage stakeholder participation. The LCR headwaters was of particular focus this FY. ADEQ worked closely with the Apache NRCD and with local NRCS staff to visit, review, and rank proposed local BMPs for current and future funding opportunities.

Surface Water staff provided mapping in GIS support to internal and external customers in support of WQIG application development and review, source water protection activities, stakeholder outreach, development of sampling plans, TMDLs, watershed plans and other reports, and external data requests. A pilot "Story Map" was developed to showcase the positive impacts of NPS funding in the Pinto Creek watershed, and will be updated based on EPA comments to the draft Pinto Creek SP-12 report in FY16 Q1.

Deliverable 2:
NWQI effectiveness monitoring in the LCR and San Pedro watersheds is discussed in 1.3.8 Table 3.

Surface water staff continued to coordinate with Compliance staff, ASLD, ADOA State Risk, Freeport Bagdad and BLM on this project. Much of the year was spent conducting mapping, scouting and geotechnical surveys for proposed road routes and local cover material for the lower pile cap. As of June 2015, two new potential road routes have been identified, and a cover source on ASLD property has been identified. Agencies will meet with Freeport in early FY16 to finalize road routes.

A new Intra-State Agency Agreement (ISA) was developed with Game and Fish to create a joint-funding opportunity for implementation projects in shared priority watersheds. Monitoring Unit staff continued to coordinate separately with Game and Fish on non-grant related monitoring activities.

Deliverable 3:
Given the current focus on Targeted Watersheds, the Impaired Waters Table is no longer an efficient way to track priorities for NPS funding. Instead, a table outlining priority watersheds and planned activities for the coming five years was included in the NPS 5-Year Management Plan. This plan was finalized by EPA in November 2015.

Deliverable 4:
Volunteer engagement and training and sampling plan development for the Santa Cruz project took longer than originally planned. ADEQ and U of A staff worked closely with the Friends of the Santa Cruz River to explain project objectives and encourage their input and participation. Monitoring training took place in the early spring of 2015, with the first runoff-producing rain event kicking off sampling in the last week of June 2015. Preliminary chapters of the combined TMDL/WIP plan are currently being drafted, but without data to analyze a draft plan for EPA review is not anticipated until early FY17. Monitoring needs will be re-evaluated after the Summer 2015 monsoon season.

The Granite Creek WIP update, focusing on the Miller Creek subwatershed, is off-target pending the finalization of the Granite Creek TMDL (See 1.3.8 Table 1). ADEQ staff and local volunteers collected samples throughout FY15. Staff are currently drafting the updated plan with the goal of integrating the approved TMDL information and updating project recommendations as needed in FY16 Q1.

Deliverable 5:
WQIG Cycle 16 was initiated and completed ahead of schedule. Awards were finalized in June 2015. A total of three projects totaling $410,850 were awarded in the San Pedro and Oak Creek watersheds. All of NPS 2 was allocated projects under contract within one year in conformance with EPA's requirements.

Deliverable 6:
Internal staff has worked on modeling to identify priority drainages within the Santa Cruz watershed during Q1. U of A staff provided technical support on the use of the AGWA model. Staff is also utilizing the SWAT model for this task, and attended SWAT training in Q3. Software issues and delays with the Santa Cruz project overall (see Deliverable 4) put this behind schedule and work will continue into FY16.

U of A worked with volunteers in the Tonto, Santa Cruz, Oak Creek, San Francisco River, and Granite Creek targeted watersheds throughout FY16 to support volunteer monitoring activities via monitoring trainings, sampling plan reviews, and sampling plan development.

ADEQ met the February 2015 deadline for entering load reduction data into GRTS. Reductions of 4,766 lbs/yr of nitrogen, 1,060 lbs/yr of phosphorus, and 277 tons/yr of sediment attributed to BMPs installed during federal FY15.

Deliverable 7:
Targeted watersheds and projects for FY15 effectiveness monitoring were identified in Q1. Details regarding effectiveness monitoring activities are described in Task 1.3.8 Table 3. Watershed Protection Unit activities to monitor and track progress toward improving water quality resulted in 11 delist reports (E. Verde – 2, Mule Gulch – 4, Gila River – 2, and Tonto Creek -3).

Deliverable 8:
Post-TMDL/WIP kaizen projects that progressed in FY15 include the development of the combined Santa Cruz plan (see Deliverable 4 under this task), the focused TMDL study for Big Bug (see Table 1.3.8 Table 2), the focused update of the Granite Creek WIP (Deliverable 4), and the initiation of the combined San Pedro watershed plan update. In addition, increased volunteer monitoring trainings (described throughout this task) were completed as a result of the Monitoring process improvement event, as was the hiring of a BMP effectiveness monitoring staff member in Q2. These activities were discussed with EPA on monthly update calls throughout FY15.

Deliverable 9:
ADEQ submitted the FY14 NPS annual report to EPA in November 2014. The completion of this task was delayed due to focus on the updated NPS 5 Year Management Plan, which was also approved by EPA in November. GRTS data entry requirements were met, and staff explored improved methods of uploading to and utilizing data from GRTS such as state-specific xml upload templates. These improvements to the data entry process will be further explored in FY16.

1.3.9 STATUS OF TARGETED WATERSHED ACTIVITIES

Targeted Watershed & Pollutant(s) of Concern	Projects	Project Exp. Date	Project Status & Comments
Santa Cruz River Watershed Nogales Wash (Mexico border to Potrero Creek) - ammonia, chlorine, dissolved copper, *E. coli* Potrero Creek (I19 to SC River) – dissolved oxygen, *E. coli* SC River (Nogales WWTP to Josephine Canyon) – ammonia, *E. coli* SC River (Josephine Canyon to Tubac Bridge) – ammonia, *E. coli*	Watershed plan development	n/a	ADEQ worked with U of A to finalize the Santa Cruz SAP, plan the January 2015 volunteer monitoring training, and develop watershed survey materials for local volunteers. ADEQ is currently coordinating with U of A and citizen volunteers to collect water samples in the tributaries of the Santa Cruz River.
Granite Creek Watershed Granite Creek (Headwaters to Watson Lake) - nutrients and *E. coli*	13-004: Upper Granite Creek	June 30, 2015	Multiple water quality samples have been collected by volunteers and the need for additional investigation of the North Fork of Miller Creek has delayed the completion of the update. A draft update is expected August 12th that will include BMPs for green infrastructure, urban agriculture, and manure management.
Oak Creek Watershed Oak Creek (– Headwaters to Spring Creek) - *E. coli* Spring Creek – *E. coli*	14-001: Education and Outreach-Oak Creek Watershed 15-004: Settlers Rest Stormwater Pilot Project	Jan 31, 2015 Nov 30, 2015	Project closed on January 31, 2015. The project BMPs emphasized face to face interactions the Ambassadors, a group of college students from the area, had with recreators of Oak Creek. The Ambassadors talked with everyone in the Oak Creek Watershed they met about personal behavior and the direct impact their behavior has on the water quality of the Oak Creek. The Ambassadors documented their interactions with the public and picked up trash along the way. A Nonpoint Source Pollution prevention curriculum was also taught at eight elementary schools. The second component of project was to work with the Forest Service to determine locations and construct pet waste station so that recreators with pets have appropriate places to deposit pet waste thus keeping E.coli sources out of the Oak Creek. The third component of the project involved water quality sampling to determine water quality impacts from their efforts. Settlers Rest project involves the residents in the Carroll Canyon watershed which drains to the Oak Creek. The Oak Creek Watershed Council has advertised and signed up several residents who have agreed to install BMPs on their property to reduce E.coli and sediment from reaching Oak Creek. Horse and dogs properties are targeted for BMP installation. A workshop was held in May 2015 at a church property in the watershed where stream and wetland restoration experts demonstrated BMPs to local citizens and property owners who will install BMPs themselves.

San Francisco/Blue River Watershed SF River (Blue River to Limestone Gulch) - *E. coli* SF River (Limestone Gulch to Gila River) – *E. coli* Blue River (Strayhorse Creek - San Francisco River) – *E. coli*	13-003 Clifton Restroom	Aug 31, 2015	The Clifton Restroom project completed installation of a prefabricated restroom with water and sewer hookup. Additional ADA accessibility ramp and handrails are remaining. An abbreviated sampling plan is complete and sampling has taken place around high recreation events along the San Francisco River. Education materials have been presented to elementary schools in and around the town of Clifton. Other tasks remaining include a sign by the restroom educating the public about recreating responsibly. A SHPO review has been completed and approved. The project scope has changed from a prefabricated restroom requiring water and sewer connections to a pit toilet so that groundwater well drilling is not necessary. A revised timeline and detailed plans are needed from the grantee to begin work.
	14-002 San Francisco Restroom	Dec 31, 2015	
Little Colorado River Headwaters Watershed LCR (West Fork LCR to Lyman Lake) - sediment/turbidity	13-001: Big Ditch Irrigation Pipeline	June 31, 2015	The majority of tasks outlined in the revised scope of work are completed. This includes digging and installation of the pipe and pipe connectors. The pipeline has been covered and engineer inspection complete. Engineers and the Big Ditch water company have built and placed large gabion rock structures to mitigate soil erosion. ADEQ staff hydrologists have asked for additional gabion and soil stability measures which has necessitated an extension to December 312, 2015. The grant agreement with the AZ Game and Fish has been cancelled because the land owner revoked permission to install elk fencing to protect a spring as outlined in the contract scope of work.. The project BMPS are grouped under sub-projects throughout multiple smaller watersheds within the Little Colorado River. Natural Channel Design contractor developed a matrix outlining the load reduction and cost of each BMP suggested to participating landowners. The NRCD is simultaneously working with NRCS to combine 319 funding to enable more BM installation. Both ADEQ and NRCD ranked the matrix of project in order of the biggest impact to the impaired waters of the Little Colorado River. The next step is to notify selected property owners, secure permits and begin on-the-ground work.
	15-003: Stamps Springs Protection and Restoration	Nov 30, 2015	
	15-005: Upper Little Colorado River –Apache NRCD	Nov 30, 2016	

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San Pedro River Watershed SP River (Babocomari Creek to Dragoon Wash) - *E. coliOak C*	15-001: Sand Ranch	Nov 30, 2015	This project involves clearing dirt tanks and spraying a chemical herbicide on various brush species to promote grasses that once predominated the watershed. A SHPO clearance has been obtained and the herbicide treatment (Spike Treatment) is complete. A request from another funder, AZ Game and Fish, fund Spike Treatment and ADEQ to pay for equipment and supplies was approved. Dirt tank work is remaining. The on-the-ground work for this project consist of Spike Treatment and clearing dirt tanks to hold more water for cattle. The work has been delayed because of additional archeologist monitoring requirements from the SHPO.
	15-002: Three Brothers Ranch	Nov 30, 2015	

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GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**

COMPLIANCE PROGRAM

Objective 2.1: Protect Human Health

TASK 1.4.1: Drinking Water Compliance and Enforcement

Conduct compliance inspections of drinking water systems. Investigate and resolve complaints relating to regulated facilities. Respond to drinking water emergencies.

Evaluate, prepare and take informal and formal enforcement actions for violations of state drinking water program statutes and rules and for violations of delegated federal SDWA statutes and rules. Utilize community liaisons to track progress towards meeting compliance schedules. Submit the updated Enforcement Protocol Response (ERP) report within 3 weeks of receipt. Transmit the inspection report to the Drinking Water Monitoring Unit for SDWIS data entry.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
DWSRF Federal	1) Drinking water sanitary surveys, prioritized by date of last survey.	******#1 SAME AS 2ND QTR**	Compliance
	a) Scheduled inspections of all surface water (SW), surface water purchased (SWP) or ground water under the direct influence of surface water (GWUDI) primary source PWSs are on a two-year cycle.	a) T = Biennial cycle **A = SRO 7; PHX 4**	a) ~~To be~~ As determined: SRO = 7 PHX/NC = ~~10~~4
Wellhead	b) Scheduled inspections of all non-community ground water (GW) or ground water purchased (GWP) primary source PWSs are on a five-year cycle.	b) T = 5-yr. cycle **A = SRO 29; PHX 73**	b) ~~To be~~ As determined: SRO = ~~35~~30 PHX/NC = ~~90~~77
	c) Scheduled inspections of all GW and GWP primary source community systems are on a three-year cycle.	c) T = 3-year cycle **A = SRO 42; PHX 60**	c) ~~To be~~ As determined: SRO = ~~16~~30 PHX/NC = ~~87~~77
	d) Scheduled inspections of all Outstanding Performers (GW and GWP) on a five-year cycle.	d) T = 5-year cycle **A = SRO 5; PHX 14**	
	e) Populate SDWIS sanitary survey fields.	e) Ongoing	
PPG	2) Report the total number of complaints investigated related to drinking water.	T = Quarterly **A = 31**	Compliance SRO
PPG	3) Report the total number of complaints/non-routine drinking water inspections.	T = Quarterly **A = 7**	Compliance SRO

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GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**
Objective 2.1: Protect Human Health

TASK 1.4.1: Drinking Water Compliance and Enforcement (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	4) Report the total number of informal Drinking Water Enforcement Actions. a) Number of Notices of Opportunity to Correct (NOCs) and/or Notices of Violation (NOVs) issued b) Number of NOC/NOV Closures	T = Quarterly a) **A = 113** b) **A = 117**	Compliance SRO PHX
PPG	5) Report the total number of formal Drinking Water Enforcement Actions. a) Number of Administrative Orders b) Number of Administrative Orders terminated	T = Quarterly a) **A = 9** b) **A = 7**	Compliance
DWSRF Federal PPG	6) Evaluate and respond to EPA's Enforcement Tracking Tool (ETT) Report. a) Based on the ERP report generated, address all public water systems with a score of 11 or higher. b) During the monthly conference calls between ADEQ and EPA, discuss and identify EPA/State workshare (i.e. list of specific systems) for addressing public water systems with a score of 11 or higher. c) Review and provide comment on EPA's Annual Compliance Report.	T = Based on 2012 ETT Report a) 6/30/15 **A = 96** b) Monthly **A = 0** c) 7/15 **See Summary**	Compliance Drinking Water
PPG	7) Hold monthly meetings and/or conference calls with EPA to discuss drinking water enforcement. Document agreement on discussed items and follow up actions. At least one call each quarter will be devoted to discussing the ERP list and the details of actions taken on each with a score above 10. The dates for the quarterly calls devoted to the ERP list are scheduled as follows to coincide with the ERP Processing Cycle: August 2014 November 2014 February 2015 May 2015	T = Monthly **A = 9/19/14** **A = 1/16/15** **A = 4/2/15** **A = 6/18/15**	Compliance

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GOAL #2: Protecting America's Waters **Objective 2.1**: Protect Human Health	**Program #4900: Drinking Water Regulation**
TASK 1.4.1: Drinking Water Compliance and Enforcement (Cont'd) **DELIVERABLES:**	

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.4.1 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-APP	0.58	30,983	13,633	20,947	65,563
DWSRF Federal	0.46	23,597	10,383	15,953	49,933
PPG	6.09	269,329	118,505	182,088	569,922
Wellhead	1.58	75,902	33,397	51,316	160,615
WQFF-APP PPG (Match)	0.59	33,167	14,593	22,424	70,184
SDW Program (VEI)	4.24	205,050	90,222	138,630	433,902
TOTALS	**13.54**	**638,028**	**280,732**	**431,358**	**1,350,118**

Year End Summary

ADEQ continues to protect Arizona's drinking water by conducting inspections of drinking water systems, investigating citizen's complaints, and addressing non-compliance using both informal and formal enforcement tools. During FY15, ADEQ continued to implement many of the process improvements that were began in FY14, including field issued inspection reports. On average, ADEQ issued the inspection reports for sanitary surveys within one calendar day with 93 percent of the reports being field-issued. On average, deficiencies that are identified during sanitary surveys are addressed within 93 days of the inspection.

1.4.1.1. The inspection targets reflected in the Work Plan for Drinking Water were incorrect using inspection data from SDWIS; therefore these numbers were updated in the Work Plan. ADEQ met the inspection targets for surface water systems, but did not meet their targets by 5 non-community groundwater systems and by 18 community groundwater systems. During FY15, ADEQ experienced losses in personnel, including two managers, who assisted with inspection tracking and scheduling and at least three drinking water inspectors. ADEQ chose for focus efforts on inspections of surface waste systems, specifically in Yuma, to ensure those targets were met due to higher risk and non-compliance rates. The process improvements that were implemented, including field-issued inspection reports, helped mitigate these losses while ADEQ was working to fill the vacancies. ADEQ has since replaced two of the drinking water inspectors. These inspectors are now fully trained and the inspections that were missed have been prioritized in FY16. Additionally, ADEQ has developed standard work to formalize inspection planning and work plan performance will be tracked as part of their QBoards to ensure that work plan goals are met in the future.

1.4.1.2 & 3. ADEQ fielded 31 drinking water complaints during FY15, which resulted in 7 non-routine inspections.

1.4.1.4. ADEQ issued 113 informal enforcement actions to drinking water systems to address non-compliance. 117 informal notices were closed during the FY when the systems returned to compliance.

1.4.1.5 ADEQ issued 9 Administrative Orders to drinking water systems who required longer timeframes to address their non-compliance including arsenic treatment. Additionally, ADEQ filed civil complaints against Lake Verde Water Company and Truxton Water Company for violating the compliance schedules in their administrative orders and failing to install arsenic treatment.

During FY15, ADEQ closed seven administrative orders when the facilities returned to compliance.

1.4.1.6 – ADEQ continues to work to address all of the systems that have a score above 11 on the quarterly ETT list. Data lag continues to be an issue for determining whether a system truly is out of compliance and should be targeted for enforcement.

For the workplan commitments there were 96 facilities on the July 2014 list with a score over 11. As of the July 2015 ETT list, 73 of those systems had an ETT score of less 11 and 11 more of those systems are expected to drop below 11 due to data lag issues. Following is a summary of the actions that were taken to address the following facilities where the score did not drop below 11 during FY15.

1. Mohawk Valley School District – This system dropped below 11 on the October 2014, January 2015, and April 2015 ETT lists. The system now currently has a score of 11 due to missed chlorine monitoring. ADEQ will assign a case manager to investigate.
2. Beaver Valley Water Company – ADEQ recently conducted an inspection of the system and is negotiating a consent order to resolve the system's deficiencies.
3. Arizona Windsong Water Company – EPA Enforcement case for missed monitoring has been closed. ADEQ had been working with Arizonans for Responsible Water to address the remaining issues including the uranium exceedance. ADEQ is currently working with EPA Region IX to investigate the options for the system to resolve the exceedances.
4. Shangri La Ranch – Maricopa County is drafting an order to address the arsenic exceedance. System is cooperating with the County.
5. Paulden Mini Mart – ADEQ is currently negotiating a consent order with the owner to address the arsenic exceedance. System is cooperating.
6. Joseph City Utility – Needs to be reassigned to new case manager to address the DBP violations.
7. Greenfield Ranchettes – Maricopa County is drafting an order to address the arsenic exceedance. System is cooperating with the County.
8. Peekaboo Water Coop – Maricopa County is drafting an order to address the arsenic exceedance. System is cooperating with the County.
9. Hardyville Manor – Notice of Opportunity to correct deficiencies was issued for CCR violations. Company submitted 2012 and 2013 CCRs, but violations have not been soxed. Case manager will be assigned to investigate newer CCR violations.
10. Jones Coop Water Association – Case manager working with system to obtain missing CCRs.
11. Bouse Worley System – Issued a Notice of Violation to the system in March 2015. System has installed arsenic treatment system, but an improperly installed valve may be causing exceedances. System operator repaired valve. ADEQ is monitoring to determine whether system's arsenic samples are below the MCL. If not, ADEQ will proceed with an Order.

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GOAL #2: Protecting America's Waters — **Program #4900: Drinking Water Regulation**; **Program #4400: Underground Water Regulation**

Objective 2.1: Protect Human Health

TASK 1.4.2: Groundwater Compliance and Enforcement

Implement measures to protect Arizona aquifers that serve as drinking water sources.

Evaluate, prepare and take informal and formal enforcement actions for violations of state water quality statutes, rules and permit conditions. Utilize community liaisons to track progress towards meeting compliance schedules.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
Wellhead PPG	1) Perform scheduled inspections of facilities possessing the following permit types according to risk-based inspection criteria. a) Individual APP; General APP/GQPP/NOD b) Reuse	T = Quarterly a) **A = SRO 101; PHX 48** b) **A = SRO 17; PHX 26**	Compliance SRO = 32 PHX = 89
PPG	2) Report total number of Informal Groundwater Enforcement Actions a) Number of Notices of Opportunity to Correct (NOCs) and/or Notices of Violation (NOVs) issued. b) Number of NOC/NOV Closures issued	T = Quarterly a) **A = 87** b) **A = 41**	Compliance
PPG	3) Report total number of Formal Groundwater Enforcement Actions. a) Number of Administrative Orders issued. b) Number of Administrative Orders terminated	T = Quarterly a) **A = 6** b) **A = 2**	Compliance

1.4.2 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-APP	2.54	128,490	56,536	86,870	271,895
WQFF APP DWSRF Federal {Match}	0.88	43,754	19,252	29,581	92,587
WQFF-APP PPG [Match]	0.25	12,457	5,481	8,422	26,360
Wellhead	3.80	190,704	83,910	128,931	403,545
PPG	5.99	271,986	119,674	183,884	575,544
TOTALS	**13.46**	**647,391**	**284,852**	**437,688**	**1,369,931**

Year End Summary

ADEQ continues to protect Arizona's groundwater by inspecting facilities that are regulated under the Aquifer Protection Program and taking enforcement actions against facilities that do not comply with applicable state water quality statutes, rules and permit conditions. ADEQ continues to be on track with meeting the agency's strategic goals to reduce the length of time that a facility is out of compliance. On average, a facility remains out of compliance 90 days from the date that it is identified during the inspection.

1.4.2.1. The Phoenix Office did not meet their inspection targets for APP facilities. However, the SRO exceeded their targets, and therefore, ADEQ exceeded the goal to inspect 101 APP facilities by 28 inspections. During the FY, Phoenix experienced a loss of all of their experienced wastewater personnel. Phoenix trained cross-trained two existing staff members and hired two additional wastewater inspectors during the fiscal year. Additionally, ADEQ has developed standard work to formalize

inspection planning, and work plan performance will be tracked as part of their QBoards to ensure that work plan goals are met in the future.

GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Program #4400: Underground Water Regulation

Objective 2.2: Protect and Restore Watersheds & Aquatic Ecosystems

TASK 1.4.3: Surface Water Compliance and Enforcement

Conduct site inspections of AZPDES regulated facilities. AZPDES inspection reports will encompass applicable activities as described in the NPDES Compliance Inspection Manual (EPA 305-x-04-001, July 2004).

Pretreatment audits and inspections shall be performed in accordance with "Pretreatment Compliance Inspection and Audit Manual for Approval Authorities" (EPA 833/B-86-100, July 1986)

Review each AZPDES permit application from publicly owned treatment works (POTW) without a pretreatment program to determine whether any significant industrial users (SIU) are discharging to the POTW. If so, require the POTW to develop a pretreatment program (full or SIU oversight only in the subsequent permit or alternatively add the SIUs to the State's SIU inventory.

Review and approve new programs (full or SIU-oversight only) and changes to approved pretreatment programs submitted by POTWs. Provide written analyses to the POTWs when such submittals are unapprovable.

Evaluate, prepare, and take informal and formal enforcement actions for violations of water quality statutes, rules and permit conditions and federal CWA statutes, rules and permit conditions. Utilize community liaisons to track progress towards meeting compliance schedules.

Enter discharge monitoring report data into ICIS for major and minor facilities within 20 days of receipt.

Enter permit and facility inspection and enforcement action information into ICIS within 30 days of receipt.
a. Permit and facility data (majors and minors)
b. Inspection data (majors/minors)
c. Enforcement Action (majors/minors)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	1) AZPDES inspections: a) Scheduled compliance inspections of all major facilities that are operational every other year. b) Perform scheduled compliance inspections of AZPDES minor point source facilities at least once in permit term. (89/5). c) ADEQ will continue negotiations toward a risk-based approach for inspection to EPA.	T = a) Quarterly **A = SRO 15; PHX 31** b) Quarterly **A = SRO 9; PHX 18** c) On-going	Compliance a) PHX = 30 SRO = 5 b) PHX = 16 SRO = 2

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GOAL #2: Protecting America's Waters — **Program #4500: Surface Water Regulation**; **Program #4400: Underground Water Regulation**

Objective 2.2: Protect and Restore Watersheds & Aquatic Ecosystems

TASK 1.4.3: Surface Water Compliance and Enforcement (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	2) Conduct inspections of stormwater facilities subject to general permitting requirements. a) Industrial b) Construction i) Phase 1 (facilities larger than 5 acres) ii) Phase 2 (facilities between 1-5 acres) * Inspections of facilities that do not have permit coverage but are subject to general permitting requirements shall count toward the total number of inspections.	T = Reporting: SRO; PHX a) **A = SRO 19; PHX 32** bi) **A = SRO 32; PHX 30** bii) **A = SRO 20; PHX 29**	Compliance a) SRO = 13 PHX = 37 b) SRO *Phase 1 = 8* *Phase II = 7* PHX *Phase I = 22* *Phase II = 13*
PPG	3) Perform compliance inspections of CAFO/AFO facilities (permitted and unpermitted). a) Inspect all AZPDES permitted CAFOs on a five-year cycle.	T = 1 **A = 1** **A = 2**	Compliance PHX
	4) Perform compliance inspections of biosolids facilities as per the protocol submitted by ADEQ. a) Wastewater treatment plants that land apply or surface dispose biosolids once every five years (20/5). b) Large commercial applications annually. c) Small commercial applicators at least every other year; applicators applying to their own fields at least twice every five years. Goal 3, obj a, strategy ii; Goal 3, obj c, strategy i	T = a) 5 **A = 5** b) 4 **A = 5** c) 2 **A = 3**	Compliance PHX
	5) Review annual reports submitted under biosolids rule.	T = 28 **A = 38**	Compliance PHX

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Program #4400: Underground Water Regulation

Objective 2.2: Protect and Restore Watersheds & Aquatic Ecosystems

TASK 1.4.3: Surface Water Compliance and Enforcement (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	6) Manage the pretreatment program. a) Review the annual reports submitted by each POTW with an approved pretreatment program and provide written feedback when program deficiencies are found. b) Conduct pretreatment audits (PCA) of approved pretreatment programs. The audit shall include at least two inspections of significant industrial users to independently validate the application and implementation of pretreatment standards and requirements. c) Conduct pretreatment compliance inspections (PCIs) for approved pretreatment programs. A PCI shall not be conducted in the same year as a pretreatment audit. d) Perform an inspection at each POTW with an SIU-oversight only pretreatment program. The focus of these inspections is solely to ensure that SIUs are complying with pretreatment standards and requirements.	a) T =19 **A = 20** b) T = 4 **A = 4** c) T = 8 **A = 8** d) T = Once in 5 yrs. **A = 5**	Compliance PHX
PPG	7) Report total number of complaints relating to Clean Water Act. a) Complaints received b) Number of complaint/non-routine surface water inspections. Goal 3, obj. a	T = a) **A = 22** b) **A = 18**	Compliance
	8) Report the number of informal enforcement actions issued and closed for any data not reported to ICIS: a) MSGP b) CGP c) Biosolids d) CAFO	T = Quarterly a)**Issued 12; Closed 8** b)**Issued 29; Closed 27** c)**Issued 3; Closed 2** d)**Issued 0; Closed 0**	Compliance
	9) Report the number of formal enforcement actions for any data not reported to ICIS. a) Administrative orders issued b) Administrative orders terminated	T = Quarterly a) **A = 5** b) **A = 6**	Compliance

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Program #4400: Underground Water Regulation

Objective 2.2: Protect and Restore Watersheds & Aquatic Ecosystems

TASK 1.4.3: Surface Water Compliance and Enforcement (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
	10) Complete quarterly compliance reviews and submit for the following: a) The automated QNCR (major/minor facilities) from ICIS b) Responses to the quarterly watch list generated in 7/14, 10/14, 1/15, 4/15	T = a) **9/08/14**, **12/5/14**, **3/13/15**, **6/12/15** b) Within 30 days	Compliance
PPG	11) Begin entering major and minor DMR compliance data in the ICIS production environment immediately upon completion of the migration process of the Arizona data in PCS to ICIS by the EPA.	T = Quarterly	Compliance
	12) Hold meetings and/or conference calls with EPA to discuss timely and appropriate CWA enforcement. (*) Document agreement on discussed items on follow up actions. One call each quarter will be devoted to discussing the QNCR/QNVR list and the details of actions taken on each SNC on the QNCR list.	T = Monthly	Compliance
	13) Update the Compliance Monitoring Strategy Worksheet for FY15	T = 8/1/14 **A = 10/15/14**	Compliance

FOOTNOTES:
(*) EPA's policy defines "timely" enforcement as formal enforcement taken against a facility in significant non-compliance ("SNC") within 5 ½ months of the end of the quarter in which the facility first appears as SNC on a Quarterly Non-Compliance Report ("QNCR"). Formal enforcement is defined by EPA as an administrative order or civil action that requires the facility to return to compliance. EPA will consider taking formal enforcement action against SNC facilities if ADEQ does not issue a timely formal enforcement action.

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GOAL #2: Protecting America's Waters	**Program #4500: Surface Water Regulation** **Program #4400: Underground Water Regulation**
Objective 2.2: Protect and Restore Watersheds & Aquatic Ecosystems	
TASK 1.4.3: Surface Water Compliance and Enforcement (Cont'd) **DELIVERABLES:**	

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.4.3 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-AZPDES	5.10	264,567	116,409	178,868	559,845
WQFF-AZPDES NPS in PPG {Match}	0.31	18,670	8,215	12,622	39,507
WQFF-APP NPS in PPG {Match}	0.17	7,730	3,401	5,226	16,357
PPG	6.76	317,827	139,844	214,876	672,547
WQFF-AZPDES PPG (Match)	0.49	22,078	9,714	14,926	46,719
WQFF-APP PPG (Match)	0.16	7,275	3,201	4,918	15,394
WQFF-APP	0.41	19,861	8,739	13,428	42,027
TOTALS	**13.40**	**658,008**	**289,524**	**444,866**	**1,392,398**

Year End Summary

ADEQ continues to protect Arizona's surface water by conducting inspections of regulated AZPDES facilities and using either formal or informal enforcement actions to address non-compliance. ADEQ continued to implement process improvements to increase inspection efficiency and improve compliance rates. ADEQ is on track to meet their strategic goal to decrease the length of time that it takes for a facility to return to compliance. On average, facilities correct deficiencies identified during the time of the violation within 72 days from the date of the inspection.

1.4.3.1. ADEQ exceeded inspection targets for both major and minor AZPDES inspections. ADEQ continued to implement process improvements for major and minor inspections. On average, facilities receive their inspection reports within 12 days of the inspection. 43 percent of the facilities were issued their inspection report at the time of the inspection.

1.4.3.2. The Phoenix Office did not meet their stormwater inspection targets for MSGP; however, the SRO exceeded their inspection goals; therefore, ADEQ only missed their overall inspection target by 1 inspection. Both offices exceeded their targets for CGP inspections.

During the FY, the Phoenix office experienced a loss of all their experienced wastewater inspectors and most of their experienced stormwater inspectors. During the year, two new inspectors were hired to conduct wastewater and stormwater inspections. Even with the loss of staff, ADEQ was able to meet most of their Work Plan goals due to process improvements that were made in the stormwater program, including field-issued inspection reports. On average, facilities received their inspection report within 3 days of the inspection and 85 percent of inspection reports were field-issued. Additionally, ADEQ has developed standard work to formalize inspection planning and work plan performance will be tracked as part of their QBoards to ensure that work plan goals are met in the future.

1.4.3.3. ADEQ exceeded inspection targets for CAFOs.

1.4.3.4 & 5.ADEQ met or exceeded all inspection targets for the biosolids program.

1.4.3.6. ADEQ met or exceeded all inspection targets for the pretreatment programs.

1.4.3.7. ADEQ investigated 22 Clean Water Act Complaints. 18 of those inspections resulted in a non-routine inspection.

1.4.3.8. ADEQ continued to use informal actions when appropriate to address non-compliance for the MSGP, CGP, biosolids, and CAFO programs. ADEQ continues to be on track with meeting the agency's strategic goals to reduce the length of time that a facility is out of compliance. On average, a facility remains out of compliance 90 days from the date that it is identified during the inspection.

1.4.3.9. ADEQ issued administrative orders to 5 facilities during FY15. ADEQ terminated 6 administrative orders during FY15, when the facilities met the compliance conditions and returned to compliance.

1.4.3.11. ADEQ was not able to upload DMR data for major and minor facilities into the ICIS production environment due to issues with their node. ADEQ contracted with Windsor during FY15 to obtain technical assistance and continues to make this project a priority. ADEQ is committing to meet the deadlines established in the next work plan.

1.4.3.12. ADEQ met with the EPA on a monthly basis to discuss timely and appropriate enforcement and to discuss the ICIS issues.

1.4.3.13. ADEQ completed and submitted the compliance monitoring strategy on October 15, 2014.

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GOAL #2: Protecting America's Waters | **Program #4900: Drinking Water Regulation**
WATER QUALITY PLANNING & BUDGETS | **Program #4500: Surface Water Regulation**
Program #4400: Underground Water Regulation

Objective 2.1: Protect Human Health &
Objective 2.2: Protect and Restore Watersheds & Aquatic Ecosystems

TASK 1.5.1: Division & Section Management

Manage Water Quality Division and Section programs. Perform managerial, administrative, and other program duties. Advise management team and provide guidance and training to staff. Provide program oversight and guidance to regional staff performing tasks under the integrated work plan. Coordinate development and implementation of delegation agreements. Coordinate necessary rules and policy development for division programs.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	1) Section FY15 Output Report to WQ Planning Unit. Due 15 days after the end of each state FY quarter	T = Quarterly **A = 10/29/14; 1/29/15; 7/15/15**	All Sections
PPG DWSRF Federal	2) EPA/ADEQ grant meetings: a) End of year review for FY14 b) Mid-year review for FY15 c) EPA negotiation meetings for FY16	T = a) 9/14 **A = 12/14** b) 2/15 **A = 3/15** c) 3/15 **A = 3/15**	All Sections

1.5.1 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-AZPDES	0.41	38,944	17,135	26,329	82,409
WQFF-APP	4.22	248,390	109,292	167,932	525,613
PPG	3.64	217,354	95,636	146,949	459,938
SDW Program (VEI)	0.07	5,337	2,348	3,608	11,294
DWSRF Federal	0.33	16,807	7,395	11,363	35,565
WQFF-APP PPG {Match}	0.23	17,058	7,506	11,533	36,096
WQFF APP DWSRF Federal {Match}	0.25	17,489	7,695	11,824	37,008
Contract: Education & Training (PPG)					**30,000**
Contract: Attorney General (PPG)					**100,000**
TOTALS	**9.15**	**561,379**	**247,007**	**379,537**	**1,317,923**

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GOAL #2: Protecting America's Waters

Program #4900: Drinking Water Regulation
Program #4500: Surface Water Regulation
Program #4400: Underground Water Regulation

Objective 2.1: Protect Human Health
Objective 2.2: Protect and Restore Watersheds & Aquatic Ecosystems

TASK 1.5.2: Water Quality Planning

Coordinate the development and amendment of annual water quality work plans and grants. Plan, control and monitor expenditures of manpower and state/federal financial resources. Manage business functions, including Division contracting activities.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	1) Develop annual FY16 Integrated Water Quality Division Work Plan and submit to EPA	T = Draft 2/15 **A = 2/15** Final 4/15 **A = 4/30/15**	Director
PPG	2) Coordinate development of performance reports a) Final FY14 Output Report to EPA b) Midyear Output Report to EPA	T= a) 8/14 **A = 8/5/14** b) 2/15/15 **A = 2/10/15**	Director
PPG	3) WQ Planning documents a) Distribute work plan books for FY15 start-up. b) Finalize spreadsheets for FY16 startup. c) Hold conference calls with EPA regarding budget updates. (FY14 FSR Review & FY15 Update) d) Submit Budget Status Reports (BSR) summaries for: i) Performance Partnership Grant (PPG) ii) DWSRF Federal (15%) Set-Aside iii) Wellhead (10%) Set-Aside	T = a) 7/14 **A = 7/14** b) 5/15 **A = 5/15** c) 10/14; 1/15; 4/15 **A = 10/14; 1/15/ 4/15** d) T = 10/14; 1/15; 4/15 **A = 10/14; 1/15; 4/15**	Director
PPG	4) Coordinate with EPA the destruction of the official Construction Grant files as they are returned from State Retention Center.	T = Ongoing **A = See Summary**	Director
PPG	5) Prepare revised SF 424A to reflect the actual costs of SFY 2014 PPG at end of year. A corresponding narrative write up will be submitted to reflect any impacts to individual SFY 2014 Work Plan tasks and/or deliverables.	T = 9/30/14 **See Summary**	Director

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GOAL #2: Protecting America's Waters **Objective 2.1**: Protect Human Health **Objective 2.2**: Protect and Restore Watersheds & Aquatic Ecosystems	**Program #4900: Drinking Water Regulation** **Program #4500: Surface Water Regulation** **Program #4400: Underground Water Regulation**

TASK 1.5.2: Water Quality Planning (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.5.2 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
PPG	1.68	80,373	35,364	54,339	170,076
TOTALS	**1.68**	**80,373**	**35,364**	**54,339**	**170,076**

Year End Summary

Del. #4: Destruction of all remaining EPA Construction Grants project files is complete. Files were determined to be closed out and past the 20-Yr. retention period during 3rd Qtr., bringing this project to a close.

Del. #5: Not needed; FFR showed only $10,442.38 unobligated.

GOAL #2: Protecting America's Waters

Program #4900: Drinking Water Regulation
Program #4500: Surface Water Regulation
Program #4400: Underground Water Regulation

Objective 2.1: Protect Human Health
Objective 2.2: Protect and Restore Watersheds & Aquatic Ecosystems

TASK 1.5.3: Water Quality Data Management

Facilitate the development and management of relevant database applications including the integration of ground water, surface water and engineering review applications. Facilitate the development of new and expansion of existing e-government applications. Facilitate water data capture, storage, access, retrievals, analysis, integration and sharing. Conduct GIS projects and data analysis in coordination with water and waste programs, ITS and GIS Technical Committee, and AGIC.

All water quality data generated in accordance with a Quality Assurance Project Plan by the state will be transmitted into the Agency's Storage and Retrieval (STORET) data warehouse using the Water Quality Exchange (WQX). Water quality data that are appropriate for STORET include physical, chemical, and biological sample results for water, sediment, and fish tissue. The data include toxicity data, microbiological data, and the metrics and indices generated from biological and habitat data. WQX is the water data schema associated with the EPA, State and Tribal Exchange Network. More information about WQX and the STORET warehouse, including tutorial can be found at:
http://www.epa.gov/storet/wqx/

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	1) Conduct gap analysis to inform design and programming of the required systems to implement EPA's E-reporting rule*, including E-DMR.	T = 6/15	ITS Director Compliance
PPG	2) Complete gap analysis to allow participating laboratories to transmit test data to SDWIS (lab to state).	T = 6/15	ITS Drinking Water
	3) Continue to assist in the analysis and design of myDEQ. Current areas of focus include drywells, APP type 2 & 3 general permits, reclaimed water type 2 & 3 general permit and stormwater permits.	T = 6/15	ITS Director Groundwater Surface Water Compliance

* Contingent on rule adoption

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GOAL #2: Protecting America's Waters

Program #4900: Drinking Water Regulation
Program #4500: Surface Water Regulation
Program #4400: Underground Water Regulation

Objective 2.1: Protect Human Health
Objective 2.2: Protect and Restore Watersheds & Aquatic Ecosystems

TASK 1.5.3: Water Quality Data Management (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	4) Water Quality database: a) Conduct gap analysis of current deficiencies including ability to upload data to WQX and upload any missing data from 2005 to the present. b) Fix ADEQ priority one issues to improve ADEQ ability to enter and make corrections. c) Complete and maintain uploads to WQX on a quarterly basis or more frequent if possible. d) Make decision on path forward (e.g., new database versus fix current one) based on gap analysis and revise Task 1.5.3 to implement chosen path forward. e) Implement chosen path from 4.d.	T = a) 9/14 **A = 9/14** b) 9/14 **A = 10/14** c) 6/15 Quarterly **A = 100%** d) 11/14 **A = 1/15** e) 6/16 **See summary**	**ITS** Director Surface Water

1.5.3 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-AZPDES	0.84	50,528	22,232	34,161	106,921
WQFF-APP	0.42	20,410	8,980	13,799	43,189
PPG	1.08	56,397	24,815	38,129	119,341
Contract: WQ Database (WQARF from WPD)					250,000
TOTALS	**2.34**	**127,335**	**56,027**	**86,089**	**519,451**

Year End Summary
#1: ADEQ was unable to complete item one in the allotted time because the USEPA electronic reporting rule was not issued during the 2015 Fiscal Year. ADEQ anticipates beginning the gap analysis once the e-reporting rule is finalized.
#2: ADEQ has not completed the gap analysis; however, we have loaded lab to state into the test environment. ADEQ is currently evaluating if we want to move forward with lab to state or wait until CMDP is available.
#3: Ongoing; no Water Quality Division permits are currently in the backlog for development in the myDEQ e-permitting web portal. When new WQD portal projects are considered for development, staff will be participating in that process.
#4e is on track; we are currently exploring expanding the pool of data open for analysis to the new database solution to ambient water quality data collected by permittees.

GOAL #2: Protecting America's Waters **Program #4900: Drinking Water Regulation**
Program #4500: Surface Water Regulation

Objective 2.1: Protect Human Health
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.5.4: WIFA Support

Provide engineering services to WIFA projects and engineering support to Arizona border communities and to delegated counties and cities statewide.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
PPG	1) Provide engineering services to WIFA: a) Conduct general WIFA outreach and provide technical assistance to communities considering participation with WIFA. b) Provide engineering consultation during loan application process through project closeout as requested by the WIFA project manager (may include review of Preliminary Financial Applications (PFAs) and due diligence reports). Provide consultation on ADEQ requirements as needed. c) Accompany WIFA project managers on construction observations and PFA visits when needed. d) Provide technical reviews and advice to the Planning and Design Grants Scoring Committee and consult with the WIFA Grants Coordinator on project development when requested. e) Attend Project Status Team meetings, Tech Team meetings and RWIC meetings. Serve as a liaison for federal border water and wastewater issues and grants.	T = 6/14	SRO
Wellhead	2) Provide engineering evaluation, oversight and technical assistance to facilitate the planning, design and construction of water and wastewater infrastructure projects in the 100 km border region to ensure that facilities conform to applicable standards and protect Arizona's environment.	T = As needed	SRO
	3) Assist WQD with engineering technical assistance, training and outreach.	T = As needed	SRO

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GOAL #2: Protecting America's Waters	**Program #4900: Drinking Water Regulation** **Program #4500: Surface Water Regulation**
Objective 2.1: Protect Human Health **Objective 2.2**: Protect & Restore Watersheds & Aquatic Ecosystems	
TASK 1.5.4: WIFA Support (Cont'd) **DELIVERABLES:**	

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.5.4 - FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
PPG	0.05	2,950	1,298	1,994	6,242
WQFF-AZPDES	0.27	16,827	7,404	11,376	35,607
WQFF-APP	0.20	11,800	5,192	7,978	24,970
Wellhead	0.50	29,500	12,980	19,944	62,424
TOTALS	**1.02**	**61,077**	**26,874**	**41,293**	**129,244**

Year End Summary
The position that supported this task has been vacant all year; however, support for Deliverable #2 was provided by staff from the Office of Border Environmental Protection (OBEP):

During Quarter 1, OBEP staff consulted with Water Quality Division compliance programs to obtain the APP permit for the city of Douglas. Pretreatment requirements in the permit were shared with EPA for background and to support federal requests that Douglas establish a municipal pretreatment program as a contingency for Border Environment Infrastructure Fund (BEIF) grant monies. In addition, OBEP staff shared details with EPA regarding upcoming pretreatment training venues. This ensured that Douglas staff could obtain the background needed to meet BEIF grant contingencies associated with pretreatment. OBEP's support resulted in three operators from the city of Douglas attending the two-day pretreatment workshop hosted by the Arizona Water Association in Phoenix (October 22,23, 2014). It also helped ADEQ (OBEP) staff establish a personal relationship with those same operators for troubleshooting compliance questions should they occur.

During Quarter 2, OBEP staff assisted by responding to requests from the Arizona Rural Development Specialist for the Rural Community Assistance Corporation (RCAC) Environmental Services regarding contacts in Southern Arizona counties that could provide information on wastewater infrastructure needs of colonias. Contacts were provided for Santa Cruz, Cochise and Pima Counties; RCAC already had contacts in Yuma County. RCAC's goal for this effort is to improve infrastructure funding from the U.S. Department of Agriculture and EPA under their joint colonias program.

GOAL #2: Protecting America's Waters

Program #4900: Drinking Water Regulation
Program #4500: Surface Water Regulation
Program #4400: Underground Water Regulation

Objective 2.1: Protect Human Health
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems

TASK 1.5.5: Border Strategy

Continue implementation of the Border Strategy Plan by identifying water quality transboundary issues, coordinating with U.S. and Mexican counterparts toward the resolution of respective issues, and conducting water quality studies in the Arizona border region.

Coordinate with EPA on Border 2020, or subsequent U.S.-Mexico border environmental program activities, and provide technical support as feasible on projects funded through the program.

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
	1) Continue support of wastewater pretreatment program in the Ambos Nogales border region. Specific activities include: a) Provide technical support to stakeholders b) Maintain or revise, if necessary, ADEQ's current Memorandum of Understanding with Nogales, Sonora authorities c) Assist with coordination of training to enhance local pretreatment efforts d) Assist with source characterization of regulated contaminants	T = As needed	SRO
Wellhead	2) Participate in or chair meetings with binational stakeholders regarding issues and remedies to the water quality impairment of shared watersheds along the US/Mexico border including Nogales Wash in Ambos Nogales. Goal 3, obj. c, strategy i	T = As needed	SRO
	3) Support work in Nogales, Sonora to reduce sanitary sewer overflows into Nogales Wash.	T = As needed	SRO
	4) Coordinate with EPA on Border 2020 and provide technical support as feasible on projects funded through the program.	T = As needed	SRO
	5) Assist in TMDL and groundwater quality investigations for sites located in the border region as assigned. Investigations may include the need to photodocument conditions, collect field notes, conduct water quality sampling and data management, and/or file preliminary reports on findings. Goal 1, obj. c, strategies i & ii	T = As needed	SRO

SFY 2015 4th Quarter Final Output Report

GOAL #2: Protecting America's Waters	**Program #4900: Drinking Water Regulation** **Program #4500: Surface Water Regulation** **Program #4400: Underground Water Regulation**
Objective 2.1: Protect Human Health **Objective 2.2**: Protect & Restore Watersheds & Aquatic Ecosystems	

TASK 1.5.5: Border Strategy (Cont'd)

DELIVERABLES:

GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF

1.5.5 - Border Strategy	FTE	Personnel	ERE	Indirect	Total
Wellhead	0.33	20,599	9,064	13,927	43,589
WQFF-AZPDES	0.44	27,825	12,243	18,812	58,880
WQFF-APP	0.20	13,203	5,809	8,926	27,939
WQFF-APP NPS in PPG	0.33	20,593	9,061	13,923	43,576
TOTALS	**1.30**	**82,220**	**36,177**	**55,587**	**173,984**

Year End Summary

(1a) On July 11, 2014, staff coordinated and assisted with a meeting between representatives of the ADEQ hazardous waste inspections and compliance program and the Nogales, Arizona, pretreatment program. The focus was on industrial facilities within the city that would benefit from visits by one or both programs. On August 11, 2014, staff summarized second quarter pretreatment monitoring data from the U.S. International Boundary and Water Commission (USIBWC) in reference to the Nogales International Wastewater Treatment Plant (NIWTP) for the agency's water quality compliance program and EPA. On August 20, 2014, staff met with Nogales, Sonora Water and Wastewater Utility (OOMAPAS-NS) personnel at their invitation to assist with the repair of an ISCO auto-sampler. On November 3, 2014, staff met with the pretreatment administrator for the city of Nogales, Arizona, to review pretreatment compliance requirements related to the city's responsibilities under the AZPDES permit for the NIWTP. On November 5, 2014, staff participated in a meeting between ADEQ's pretreatment program coordinator and representatives from the city of Nogales, Arizona; an inspection report was prepared and shared with the city for follow-through. On January 15, 2015, staff participated in a teleconference with WQD compliance staff to summarize the origin and significance of special requirements of the USIBWC's AZPDES permit. On January 29, 2015, staff forwarded written details to WQD staff regarding observed performance under the special requirements of the permit, highlighting both progress and deficiencies; written details were resubmitted on February 5, 2015, and May 8, 2015. On April 2, 2015, staff visited the NIWTP to review the installation of an S::CAN system for real time monitoring of wastewater quality for the purpose of improving binational communication; details were summarized for EPA. On August 21, 2014, staff procured a complete and functioning flame atomic absorption spectrometer (flame AA) from Alcoa Fastening Systems (AFS) for donation to a Nogales, Sonora, community college in support of local pretreatment activities. The donation was subsequently declined, so the unit was donated to the University of Arizona on March 31, 2015. **(1b)** The current MOU is still in effect; therefore, this deliverable does not apply. **(1c)** On December 12 and 18, 2014, staff met with stakeholders supporting the Border 2020 Pretreatment Training Workshop in development. Subsequently, staff worked with Nogales, Sonora, on a joint presentation to introduce the workshop. On January 28, 2015, staff attended the City of Phoenix Industrial Pretreatment Compliance Academy. Also participating were utility operators from the city of Willcox and engineers from the Border Environment Cooperation Commission (BECC). On June 23, 2015, staff assisted Arizona State University (ASU) in hosting a pretreatment training workshop for metal plating facilities in the border region. Staff presented on "the why" of pretreatment, including references to EPA infrastructure grant contingencies and the need to protect the environmental quality of the binational (Ambos Nogales) watershed. **(1d)** Throughout the month of January, staff shared feedback regarding a USIBWC scope of work on source characterization of contaminants impacting Ambos Nogales wastewater. Staff also worked with the city of Nogales, AZ, on maps of regulated facilities within its boundaries in support of binational transparency. **(2)** On September 2, 2014, staff presented recommendations at a regional meeting of emergency providers focused on improving binational communication regarding hazardous materials, particularly in regards to potential impacts to binational watersheds. On September 10, 2014, staff attended a Nogales Binational Technical Committee meeting

hosted by USIBWC and presented Arizona priorities and concerns regarding ongoing sanitary sewer overflows that originate in Nogales, Sonora, Mexico. On October 15-16, 2014, staff visited the San Bernardino Ranch in Agua Prieta, Sonora, at their invitation and conducted a survey of flood damage from Hurricane Odile; respective details were incorporated into a case study prepared for the Good Neighbor Environmental Board published in December 2014. Staff supported the development of an additional case study for that report, which was presented to the White House Council on Environmental Quality on December 8, 2014. On January 21, 2015, ADEQ attended a Nogales Binational Technical Committee meeting hosted by USIBWC; a meeting summary was developed and shared with EPA. On March 26, 2015, staff attended the Annual Santa Cruz River Researchers Days hosted by the Sonoran Institute; a summary of recent research of interest was shared with EPA. On April 22, 2015, staff addressed a meeting of the Groundwater Users Advisory Council in Nogales, AZ, and presented on Nogales Wash water quality issues and concerns, and actions taken by ADEQ through OBEP to help mitigate the same. On June 23-24, 2015, staff attended a meeting of the Sky Island Restoration Cooperative (SIRC) hosted by the Cuenca Los Ojos Foundation; staff summarized efforts supporting the SIRC mission being addressed by OBEP and prepared a meeting summary for ADEQ and EPA review. **(3)** On July 10 and July 22, 2014, staff sampled the Nogales Wash during sanitary sewer overflows, and discovered dissolved chromium and copper. Results were shared with USIBWC for communication at future Nogales Binational Technical Committee meetings. On August 6, 2014, staff reviewed Nogales Wash gage data for the Morley Avenue Bridge and informed USIBWC of abnormally high flows, resulting in discovery and remedy of an SSO sourced to Nogales, Sonora, Mexico. On August 11, 2014, staff summarized July 2014 Nogales Wash SSO events for the ADEQ water compliance program and EPA and surveyed the Nogales Wash for damage. On December 18, 2014, staff traveled to Nogales, Sonora, and documented developments surrounding a new wastewater diversion from the Ruiz Cortinez Collector and capacity challenges with the gravity main to the Los Alisos Wastewater Treatment Plant; details were shared with EPA and BECC. On December 4, 2014, staff attended a public meeting of the Friends of the Santa Cruz River on Nogales and Rio Rico water quality; a summary was developed for ADEQ and EPA. **(4)** On August 6, 2014, staff visited and documented a bottle dam on the Santa Cruz River, adjacent to the Tumacacori National Historic Park, associated with improper disposal of household waste. Most of the waste had labels in Spanish on them and included containers of auto repair products. Details and photos were summarized for internal and EPA review. On September 15, 2014, staff participated in a kickoff meeting of stakeholders for the Border 2020 Pretreatment Toolkit project. Staff shared information regarding binational treatise (Minute 276), highlighting language associated with protection of wastewater quality originating from Mexico. During the month of November, staff worked with EPA counterparts on development of agendas and briefing papers for meetings of the Arizona-Sonora Regional Workgroup co-chairs on December 3, 2014. On December 4, 2014, the U.S. Environmental Protection Agency (EPA) and partnering agencies (ADEQ, Mexico's Secretariat of the Environment and Natural Resources, and the State of Sonora Ecology and Sustainable Development Commission) hosted a Border 2020 Arizona-Sonora Regional Workgroup meeting in Rio Rico Arizona. Staff co-chaired the Arizona-Sonora Water Task Force meeting and shared a summary of new activities that may be reflected in the next action plan, pending approval of sponsoring organizations. On April 30, 2015, staff co-chaired the Arizona-Sonora (Border 2020) Water Task Force meeting in Nogales, Sonora; a full meeting summary was developed. **(5)** On July 16, 2014, staff supported ADEQ, the University of Arizona, and the Friends of the Santa Cruz River in a meeting regarding E.coli source characterization on the Santa Cruz River, and provided stakeholders with GIS covers to support a soil water assessment tool (SWAT) model to evaluate sediment sources in the Santa Cruz River watershed. Throughout the month of September, staff developed maps, reviewed papers, and supported field work for assessment of possible impacts from the Buenavista del Cobre Cananea mine spill on the San Pedro River. A geodatabase of adjacent land owners was developed for notification in the event of future spills. On February 11, 2015, OBEP staff assisted Water Quality Division (WQD) colleagues with a topographic survey of a stock tank on the Three Brothers Ranch in the Upper San Pedro River Watershed, in support of a water quality improvement grant. On June 1, 2, and 29, 2015, staff assisted the WQD with a vegetation survey on the Sands Ranch in the Upper San Pedro River. Data from the survey may be used to improve models for source characterization and mitigation of contaminants in the area.

On February 25, 2015, staff participated in the second stakeholder meeting, hosted by the U.S. International Boundary and Water Commission (USIBWC), for the rehabilitation of the International Outfall Interceptor (IOI) at the 30% completion phase. ADEQ concerns were voiced and are reflected in the final meeting summary prepared by USIBWC's contractor.

EPA LABORATORY COMPETENCY POLICY

The Arizona Department of Environmental Quality (ADEQ), Water Quality Division, certifies that laboratories providing data to ADEQ per approved workplan activities has/have the appropriate certification/accreditation/QA documentation and has/have been evaluated by the ADEQ to determine that the laboratory (ies) has/have demonstrated competency in the requested fields of analyses, as required by EPA's Laboratory Competency Policy.